'PUBLIC HEALTH IS PURCHASABLE. WITHIN NATURAL LIMITATIONS, ANY COMMUNITY CAN DETERMINE ITS OWN DEATH-RATE."

No. 27]

[1932

ANNUAL REPORT

OF THE

MYSORE STATE DEPARTMENT OF HEALTH

WITH THE GOVERNMENT REVIEW THEREON

JANUARY 1 to DECEMBER 31, 1932.





BANGALORE:

PRINTED BY THE SUPERINTENDENT AT THE GOVT. PRESS
1933

"Search for the truth is the noblest occupation of Mankind, its publication a duty."

MYSORE STATE DEPARTMENT OF HEALTH.*

Director of Health

J. V. Karve, M.B., CH.B., D.P.H.

Honorary Consultant in Health

W. C. Sweet, B.Sc., M.D., DR. P.H.

Honorary Sanitary Engineer

J. J. Mieldazis, B.Sc., C.E.

Bureau of Administration

G. M. Dominick, M.R.C.S., D.P.H., Health Officer, Mysore District.

P. Parthasarathi, L.M.S., B.S.Sc., L.R.C.P. & S., D.T.M., D.P.H. Health Officer, Bangalore City. M. G. Srinivasa Peidpet, L.M.S., B.S.Sc., Health Officer, Mysore City.

S. Ramachandra Rao, L.M.S.,

Health Officer, Shimoga District.

G. N. Seshadri, L.M.S., D.P.H. (CAL.), Health Officer, Kolar Gold Field.

Bureau of Epidemiology and Communicable Diseases

B. Ananthaswamy Rao, B.Sc.,

M.B.B.S., M.P.H.,

Superintendent.

M. Ramachandra Rao, B.A.,

M.B.B.S., C.P.H.,

Officer, Malaria Campaign,

Irwin Canal Area.

A. S. Venkatachalam, L.M.S.,

Officer, Hookworm Campaign.

S. Seshagiri Rao, B.Sc., M.B.B.S., Officer, Plague Research.

V. Narasimhamurthy, B.Sc., M.B.B.S.,

D.P.H., D.T.M., (CAL.),

Officer, Guinea-worm Research.

D. Nursingh,

Officer, Malaria Stations.

Bureau of Laboratories 3.

C. V. Natarajan, B.Sc., M.B.B.S.,

DR. P.H., Superintendent, Public Health Institute. J. A. Iswara Murthi, B.A., L.M.S., B.S.Sc., Superintendent, Vaccine Institute.

Bureau of Vital Statistics

E. R. Sundararajan, M.A. (Hons.), Superintendent.

Bureau of Health Education

E. Anantha Rao, B.Sc., M.B.B.S., Superintendent.

6. Bureau of Sanitary Engineering

B. R. Garudachar, B.A., C.E.,

M.I.M., & CY.E., M.R. SAN. I.,

Executive Sanitary Engineer.

K. S. Hutcha Rao, B.A., B.E.

(On Deputation to America), Assistant Sanitary Engineer. M. L. Narasimha Iyengar, B.A., B.E., Assistant Sanitary Engineer.

E. B. Chinnappa, B.Sc., B.E.,

Probationer.

7. Bureau of Rural Health

T. Chandrasekharaiya, B.A., M.B.B.S., M.P.H., Superintendent.

^{*}Only officers giving full time service to the Department are included with designation as on December 31, 1932.



GOVERNMENT OF HIS HIGHNESS THE MAHARAJA OF MYSORE.

GENERAL AND REVENUE DEPARTMENTS.

G. O. No. G. 3163-85-P. H. 28-33-5, dated 14th November 1933.

Administration Report of the Mysore Health Department for the year 1932.

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The Administration Report of the Health Department for the Calendar year 1932, received from the Director of Health with his letter No. H. E. 100, dated the 29th August 1933.

ORDER NO. G. 3163-85—P. H. 28-33-5, DATED BANGALORE, THE 14TH NOVEMBER 1933.

Recorded.

- 2. Dr. Karve, Dr. Sweet and Mr. Mieldazis continued as the Director of Health, Consultant in Health and Sanitary Engineer respectively, throughout the year.
- 3. Bureau of Epidemiology and Communicable Diseases.—(a) Malaria Stations.—The post of a Malaria Officer was created and Mr. Nur Singh. Third Class Health Officer, was appointed to it. The experimental control of malaria by means of paris green was continued in the three malaria stations. Malaria surveys were conducted during the year in the Irwin Canal area and six other places.
- (b) Hookworm Control.—The campaign of mass treatment for hookworm was continued from October 1931 to 9th March 1932 and again during the last quarter of the year 1932. The unit operated in all in 17 places and mass treatment was newly demonstrated in 17 medical institutions

No. G. 3163-85—P. H. 28-33-5, DATED 14TH NOVEMBER 1933.

of the Shimoga District. It is reported that the medical officers in the heavily infected zone have failed to report the result of the mass treatment undertaken by them. The Senior Surgeon is requested to see that there is better co-operation between the Health and Medical Departments.

Plague and small-pox showed increased mortality over that for the previous year accounting for 7,232 and 2,980 deaths respectively, as against 5,715 and 2,296 during 1931. The reasons for the increase have not been assigned. The total number of anti-plauge inoculations and vaccinations done during the year was 2,34,295 and 2,45,078, respectively.

- 4. Rural Health Unit.—Cases of plague, diarrhœa and vomiting, small-pox, measles and typhoid were reported in the Mandya Rural Health Unit area. The two midwives attached to the unit visited 5,406 maternity cases in addition to conducting 66 labour cases. In the early part of the year, soon after water was turned on in the Maddur Branch of the Irwin Canal and irrigation was commenced in a few villages, it was found that the number of musquitœs was on the increase and by April, malaria attained epidemic proportions, six villages being affected very severely. With a view to determine the local conditions, a health survey in the Irwin Canal area was undertaken with a Government grant of Rs. 15,000 for free distribution of quinine and other relief measures in the affected area. Government have since passed orders sanctioning the establishment of a Health Unit for the Irwin Canal area to combat malaria. The question of starting Rural Health Units in other parts of the State was deferred on account of financial stringency.
- 5. Bureau of Health Education.—The Bureau continued to receive the assistance of the Rockefeller Foundation during the year. In all, 22 articles on health subjects were published in local [Kannada and English newspapers and leaflets and posters on small-pox, plague, soil polution and bore-hole latrines were printed in large numbers and freely distributed through the Agency of the Revenue, Educational and Local Boards authorities.
- 6. Bureau of Laboratories.—(a) Public Health Institute.—In addition to the normal work done in the Public Health Institute, extra bacteriological work was done in the Institute in connection with the investigation of the

No. G. 3163-85—P. H. 28-33-5, DATED 14TH NOVEMBER 1933.

causes for the prevalence of typhoid in the Bangalore City. On account of the large expenditure incurred on materials, in this behalf, the question of levying fees for the examination of specimens received from the Bangalore City Municipality is engaging the attention of Government.

- (b) Vaccine Institute.—Lanoline lymph continued to be manufactured and the total quantity issued within the State during the year was enough for 2,32,177 cases. Owing to the non-completion of certain important structures in the Institute, the manufacture of Glycerine lymph was not undertaken during the year. The income and expenditure of the Institute during the year were more or less equal, being Rs. 24,829 and Rs. 24,796, respectively; the latter includes a sum of Rs. 6,000 spent on the acquisition of new land for the extension of the Institute.
- 7. Bureau of Vital Statistics.—The total number of births recorded during 1932 was 115,627, showing a decrease of about 4,000 as compared with the figures of the previous year. The birth rate during the year was slightly less than in 1931, the rates being 17.79 and 18.64, respectively, Kolar District having returned the highest rate, viz., 20.85, and Hassan, the lowest, viz., 11.36.

The total number of deaths reported during the year was 88,175 against 94,265 in 1931 giving a death rate of 13.57 and 14.67, respectively. The total number of deaths among children under one year of age was 11,026 against 9,863 in the previous year, showing an increase of 1,163. Births exceeded deaths in all the districts except Kadur.

8. Bureau of Sanitary Engineering.—'The activities of the Bureau increased with the addition of the control of all the water-supplies in the State except that of the Bangalore City. Nine existing water-supplies were equipped with chlorinators during the year. The other work of the bureau was carried on on the same lines as in the previous year. Mr. J. J. Mieldazis, whose services had been kindly lent to Government by the Rockefeller Foundation has since returned to America. Government desire to place on record the valuable services rendered by Mr. Mieldazis, during the three years of his stay in the State.

No. G. 3163-85—P. H. 28-33-5, DATED 14TH NOVEMBER 1933.

9. General.—Mr. P. Parthasarathy was re-transferred from the Serum Institute to the Health Department as Health Officer, Bangalore City.

Mr. V. Narasimhamurthi, Second Grade Health Officer, who had been deputed to Calcutta, returned after obtaining D. P. H., D. T. M. of that University. Two more officers have since been deputed to Calcutta during the current year for study of D. P. H.

H. V. RAMASVAMI,

Secretary to Government,

General Department.

To-The Director of Health in Mysore.

Dr. W. C. Sweet, B.Sc., M.D., DR.P.H.

The Senior Surgeon in Mysore. The Chief Engineer of Mysore.

The Deputy Commissioners of Districts.

The Presidents of District Boards.

The Municipal Commissioner, Bangalore City, through the President.

The President, City Municipal Council, Mysore. The President, Kolar Gold Field Sanitary Board. PRESS TABLE.

Exd.—c. K.

Office of the Director of Health with the Government of Mysore.

Bangalore, dated 30th August 1933.

FROM

J. V. KARVE, Esq., M.B., Ch.B., D.P.H.,

Director of Health, Government

of His Highness the Maharaja

of Mysore, Bangalore.

To

R. RANGA RAO, Esq., B.A., B.L.,
Offg. Chief Secretary to the Government
of His Highness the Maharaja
of Mysore, Bangalore.

SIR,

I have the honour to submit herewith the Annual Report of the Mysore State Department of Health for the calendar year 1932 for favour of perusal of Government. The report has been modelled on the basis of work done in the seven Bureaux at present organised and it is hoped it will be read with interest.

2. It has been found beneficial to divide the report into two parts, Part II dealing entirely with Vital Statistics. The Tables in Part II have all been thoroughly revised and made clear and comprehensive. The special feature of these Tables is the arrangement of Taluks and Municipalities alphabetically with statistics of births, and deaths from the different diseases listed. Another important feature is the computation of rates on estimated populations in the middle of the year instead of on the stationary census population.

3. A delay of about 3 months in the submission of the report has been unavoidable as the requisite statistics

were not received from the districts in time.

I have the honour to be,
Sir,
Your most obedient servant,
J. V. KARVE,
Director of Health.

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CONTENTS

PART I.

				PAGES
1.	General	•••	* * *	1— 3
2.	Bureau of Administration:—			
	(a) City Health Organisations	S	3 • •	3-16
	(b) District Health Organisat	ions		16-22
	(c) Voluntary Organisations	* * *	* * *	2226
3,	Bureau of Epidemiology and Co.	mmunicable	Diseases:	
	(a) Malaria Control Work			26-34
	(b) Hookworm Campaign Un	it		3438
	(c) Control of Epidemic Disea		•••	38-44
4.	Bureau of Laboratories:—			
	(a) Public Health Institute	• • •	• • •	45-50
	(b) Vaccine Institute	• • •	•••	50-68
5.	Bureau of Health Education		• • •	6970
6.	Bureau of Sanitary Engineering	5	• • •	70—90
7.	Bureau of Rural Health	• • •	p • •	9095
	PART II			
	Bureau of Vital Statistics		7.76	97-170



ANNUAL REPORT

OF THE

MYSORE STATE DEPARTMENT OF HEALTH

No. 27.]

January 1 to December 31, 1932.

[1932.

GENERAL.

In the year under report the state of public health in Mysore State was normal. Agricultural crops were reported to be above the average and prices of food grains were low. Rainfall of 48 inches was recorded and in all districts it was above the average. Climatic conditions in respect of temperature and humidity were also favourable for low incidence of epidemics. When outbreaks of epidemic diseases did occur, preventive measures were promptly undertaken, with the result that during the year the State had to face only minor epidemics.

Malaria broke out in the Irwin Canal Tract in an epidemic form but measures were soon adopted to check its spread by free distribution of quinine under proper

supervision.

In order to estimate the change in health conditions of the Irwin Canal Zone, a health survey of the area was also made with the sanction of Government.

As a result of a forecast of the probable outbreaks of smallpox in 1934, leaflets were printed and circulated in English and Kanarese emphasizing the need for immediate vaccination.

An appraisal of health activities was made in the cities of Bangalore, Mysore and Kolar Gold Field and recommendations regarding improvement were made to

the Municipalities concerned.

Lt. Col. H. H. King, Director of the King Institute, Guindy, suggested the making of a rat flea survey of the State on the lines done in the Madras Presidency. Trained personnel was kindly supplied by the Colonel and

the survey undertaken covered Mysore City, Sira, Davangere, Sagar, Shimoga, and Kolar Gold Field. One of the officers of the department was associated with the survey

party for necessary training in this work.

Proposals submitted to Government for the introduction of the Standard Certificates of Death, were approved. "Physicians' Pocket Reference" was printed and supplied to the private practitioners and medical officers of hospitals for help in the classification of the causes of death according to the International list.

The present unsatisfactory state of reporting of vital occurrences is expected to be relieved by the introduction of the new registers of Births and Deaths and of cards for the notification of Epidemic Diseases, sanctioned by Government in their Order No. 5676-87—P. H. 75-30-12,

dated 11th February 1933.

Government directed that when the president or the vice-president of a municipality is a member of the Public Health Committee he should *ipso facto* be the chairman of that Committee.

In Order No. G. 9181-91—Sany. 7-27-107, dated 20th May 1932, Government directed that in districts where there are whole-time health officers, the vaccination staff should be placed under their control. Modifications were effected in regard to the rules for the training and employment of vaccinators and the issue of original and duplicate certificates.

In furtherance of the Rural Health Organization Scheme, a committee was formed to examine the nature and extent of co-operation and financial contribution to be had from local bodies. The chairman and members of the committee were respectively the Revenue Commissioner, the Director of Health, Dr. W. C. Sweet, Mr. B. K. Garudachar, Mr. A. V. Ramanathan, Mr. C. S. Kuppuswamy Iyengar and Mr. B. S. Puttaswamy, with the Superintendent of the Bureau of Epidemiology and Communicable Diseases, as Secretary. The committee studied the question at two meetings and forwarded proposals to Government for consideration.

During the year Government were pleased to transfer the entire control of water supply in the State, except the New Water Works of Bangalore City, to the Bureau of Sanitary Engineering.

Government Order No. G. 8617-19—P. H. 69-31-6, dated 30th April 1932, placed the Bureaux of Epidemiology

and Communicable Diseases, Vital Statistics and Health Education in charge of officers designated superintendents.

At the Public Health Institute, 522 specimens were examined during the year in the Chemical Section, 10,312 in Bacteriological Section and 633 articles for Medicolegal work.

Vaccine lymph enough for 416,170 cases was prepared

at the Vaccine Institute.

The Central Health Committee met twice during the year.

Mr. Mardy Jones, an ex-member of Parliament, visited

the Department and made a study of the organization.

The Director was on tour for 71 days on inspection work and as usual attended meetings of the Mysore City Improvement Trust Board, Central Health Committee, Thippagondanahalli Reservoir Committee, the Representative Assembly, the Legislative Council, etc. He acted as Honorary Secretary and Treasurer of the Mysore State Branch of the Indian Red Cross Society, with Sir Charles Todhunter as Chairman of the Executive Committee.

Mr. P. Parthasarathy was posted from the Serum Institute as Health Officer, Bangalore City. Mr. K. R. Venkatesan was confirmed as third class health officer. Messrs. A. S. Venkatachalam, S. Seshagiri Rao and V. Narasimhamoorthy were confirmed as supernumerary second class health officers. Mr. V. Narasimhamoorthy who was on deputation to Calcutta, obtained the diploma of D. P. H.

Mr. B. R. Garudachar, who was deputed to America for training in Sanitary Engineering, returned and assumed charge as Executive Sanitary Engineer on 25th May 1932. Mr. E. R. Sundararajan, who was deputed to America on Rockefeller Foundation Fellowship for training in Vital Statistics returned and resumed charge on 7th December 1932. Mr. K. S. Hutcha Rao was also deputed to America for training in Sanitary Engineering and Water Supply.

BUREAU OF ADMINISTRATION.

(a) City Health Organizations.

Bangalore City (Population 172,357).

Mr. S. Ramachandra Rao held charge of the Health Office till 7th April 1932 when he was relieved by Mr. P. Parthasarathy, reverted from the Agricultural Department, and the latter continued to be the Health

Officer till the close of the year.

The area of the city is 13 square miles or 7,796 acres with 19,550 inhabited houses. The average number of persons per house is 8.8. The city is divided into nine divisions. The following table gives the population, births and deaths with rates according to divisions:—

	Division	Popu- lation	No. of Births	No. of Deaths	Birth rate	Death rate
1.	High Ground, Palace, and Guttahalli.	9,254	134	94	14.4	10.2
2.	Balepet (including Railway	27,687	643	704	23.2	25.4
3. 4. 5. 6.	Quarters. Manavarthpet and Mill Area Ulsoorpet Nagarthapet Visveswarapur, Mavally,	38,227 19, 8 55 8,487 15,819	1,285 1,693 309 534	1,178 994 267 412	33.6 85.3 36.4 33.8	30·8 50·1 31·5 26·1
7.	Lal-Bagh, and Kalaspalya. Shankarpur, Gavipur, Fort,	21,548	560	448	25.9	20.8
8. 9.	and Chamarajpet. Basavangudi, and Guttahalli. Malleswaram, Seshadripuram, and Srirampuram.	12,191 19,289	431 449	232 380	35·4 23·3	19·0 19·7
	Total	172,357	6,038	4,709	35.0	27.3

The existence of the Government Maternity Hospital in it accounts for the high birth rate recorded in division 4.

Of the total births registered, 3,049 were male and 2,989 female. Two thousand, four hundred and fifty four of the births were conducted in the Maternity Hospital and 1,608 by the municipal midwives. Thus 67.24 per cent of the births were under skilled aid. The still-births during the year numbered 219 against 170 in the previous year.

Four thousand, seven hundred and nine deaths under various causes were registered. Nine hundred and ninety-eight of them were reported from the following public institutions and have been included in the divisions

wherein the institutions are situated:

3. 4.	Mental Hospital Victoria Hospital Central Jail Epidemic Diseases Hospital Maternity Hospital		24 418 5 171 380
	Total	• •	998

There were eight sub-registrars of births and deaths for registration of vital events, four whole-time and the rest part-time who are vaccinators, as well. The registrars'

work was checked by the sanitary inspectors and occasionally by the City Health Officer during the rounds of inspection.

One thousand, and forty deaths among infants under one year of age were reported, giving an infant mortality

rate of 172.7 per 1,000 live births.

There were reported 260 attacks and 125 deaths from smallpox. Necessary measures to prevent the spread of the disease were adopted. A total of 12,227 vaccinations was performed, of which, 6,851 were primary and the rest re-vaccinations.

One hundred and forty attacks with 115 deaths from plague were registered during the year. Timely preventive measures, such as disinfection, isolation, inoculation etc., were adopted. Fifteen thousand, seven hundred and eighty-four anti-plague inoculations were performed, giving a rate of 137 persons immunised for each death.

Thirty-nine deaths from typhoid fever were reported during the year as against 29 in the year previous. Five hundred and ninety-six anti-typhoid inoculations were given. Two hundred and seventy-five samples of water, 42 of motion, 36 of urine and five of blood were sent to the Public Health Institute for examination for enteric.

One thousand, three hundred and six houses were disinfected as against 522 in 1931. The disinfection work was undertaken by a gang of 15 men working under a

trained sanitary inspector.

Five whole-time sanitary inspectors were on work and the number of houses inspected by them was 8,940. Five thousand, four hundred and sixty-eight notices were issued for sanitary defects under the various sections of the Municipal Regulation. Prosecutions were launched in 1,184 cases, 262 of which were convicted, 42 withdrawn, 22 acquitted and four struck off, and the remaining were pending at the close of the year. The amount of fine realized was Rs. 402-4-0.

Eleven suspicious lepers and 65 vagrants were removed

to the Epidemic Diseases Hospital.

Three hundred and ten rodents were examined for plague during the year. Fifty-three were doubtful, 190 negative and 67 positive. Two hundred and forty-seven rats and six bandicoots were destroyed. This is a very poor number for the size of the city.

The City Health Department organized small health exhibitions for the Welfare Institute of the Bangalore

Woollen, Cotton and Silk Mills Company, Ltd., Bangalore and the Sri Sharada Stri Samaja, Chamarajpet, as an adjunct to the health week and baby show arranged by them. The exhibitions were very popular and well attended.

The management of the water-supply remained as in previous years with the Public Works Department. Samples of water from the public taps and Jewell Filters were examined bacteriologically every week. A high standard of purity was maintained except on a few occasions.

The sanitary staff regularly inspected the markets

and rectified the defects noticed.

The Health Officer and his staff inspected the hotels, eating-houses and aerated-water factories to improve their internal sanitary condition. Particular attention was paid to the cleanliness of the cooking utensils, cups and plates and protection of prepared articles against flies and dust.

Statement of Sanitary improvements done during the year.

1.	Number of fly and dustproof cases provided		137
2.	Pit latrines converted into daily conserval	ble	62
_		, ^	04
3.	Latrines improved	• •	51 2
4,	Newly constructed latrines in private houses		100
5.	Pits filled up	D #	27
6	Sweetmeat shops, hotels, eating-houses, et improved	ъс.,	97
7.	Compound walls constructed .	• •	48
8.	Dangerous and dilapidated buildings, sheds et	ъс.,	
	demolished or improved	• 6	119
9.	Removal of insanitary sheds		18
10.	Flush latrines introduced in private houses	• •	4
11.	Windows newly opened	• •	138

Seventeen samples of ghee, 14 of butter, one of milk, five of coffee powder, six of aerated water, three of bread and one each of Mysorepak, Boondi and gram-flour were analysed and examined regarding their fitness for human consumption. Sixteen samples were declared unfit for human consumption and action is being taken under the Adulteration Regulation and the Municipal Regulation.

A sample of "Boondi" was seized at a marriage party in Malleswaram where about 150 cases of food poisoning, causing diarrhoea, vomiting with collapse but no deaths, were reported among persons who partook of this stuff. On bacteriological investigation, it was found to be contaminated with Bacillus Prodigiosus. This seems to be the first known case of food-poisoning bacteriologically confirmed in Mysore State.

One thousand, and eleven stray dogs were destroyed at

a cost of Rs. 49-15-0.

The special malaria staff continued to carry on the anti-malaria operations as in the previous years. Details of the work appear elsewhere under the Bureau of Epi-

demiology and Communicable Diseases.

A special spleen survey was undertaken by the Superintendent, Bureau of Epidemiology and Communicable Diseases in July. One thousand, six hundred and twenty school children were examined, giving a spleen rate of 0.7. One hundred and seventy-six blood smears were examined and seven were found positive, giving a parasite rate of 3.9.

The Hygiene class of the Medical School, Bangalore and Medical College, Madras, visited the malaria station

during February and March, respectively.

In connection with the health exhibition opened at the Primary and Middle School Teachers' Conference, a section on malaria was organized by the City Health Department.

A sanitary mobile police force consisting of a sergeant and six constables was entertained since June for detection of nuisances committed on public thoroughfares, etc., removing unauthorized encroachments, preventing the sale of unwholesome articles of food.

In Epidemic Diseases Hospital, Bangalore, 83 cases of plague and 96 of smallpox were admitted, of which, 57 of plague and 15 of smallpox died, giving mortality rates

of 69 and 15 per cent, respectively.

The total strength in the Leper Asylum, Bangalore, during 1932 was 169. In four cases there was considerable improvement under treatment and in 24 the disease was arrested and the cases were discharged. Forty-nine cases were otherwise discharged and eight proved fatal. The treatment adopted varied. Alepol, Extractum Cactus Benzoina co., Anti-leprol and E.C.C.O. were used. No one course could be pursued due to the prohibitive cost of the drugs.

Eighty-two cases in different stages of tubercular affection sought admission. Of these, six were cured, 18 were relieved of acute symptoms, 20 discharged at their own request and 29 died resulting in a mortality rate of 32 6 per cent. All afebrile cases were given Sanatorium treatment coupled with exposure to sunlight and graduated exercises. Codliver oil with sodium morrhuate injection and systematic dieting were mainly resorted to in the treatment of other cases.

Civil and Military Station, Bangalore.—Five thousand three hundred and twenty-two births with a birth-rate of 39.71 and 3,884 deaths with a death-rate of 28.98 were recorded. One thousand and seventy-four infants under one year died, giving an infant mortality rate of 201.8 per 1,000 births registered.

During the year under report plague prevailed in the Station, one hundred and twenty-six attacks with 101 deaths having been registered. Eleven thousand, seven hundred and thirty-seven anti-plague inoculations were done.

Sixty-seven attacks with 28 deaths from smallpox, 118 attacks with 1 death from chicken-pox and 126 attacks with 26 deaths from enteric were reported. A total of 17,546 vaccinations, and 572 anti-typhoid inoculations were performed.

The Station was free from cholera.

The maternity and childwelfare work was continued as in previous years. The lady health visitor paid 13,552 domiciliary visits. Three thousand, nine hundred and twenty-one pregnant women attended the antenatal clinics.

Anti-malaria work was carried out systematically by oiling pools and ponds. In addition, the draw wells were stocked with larvicidal fish, supplied by the Mysore Health Department.

In the laboratory, smears from 7,530 rodents were examined for plague, of which, 31 were positive and 9 suspicious. Six samples of milk, 1 of butter, 2 of ghee, 3 of water, 1 of blood and 4 of aerated water were also analysed.

Mysore City: Population 107,122.

Mr. M. G. Sreenivasa Peidpet, L.M.S., B.S.SC., continued to be the Health Officer during the year under report.

Two thousand, seven hundred and sixty-nine births were registered as against 2,803 in 1931. The birth-rates for 6 years (1927-1932) are here given:—

1927	• • •		31'16
1928	• • •	• • •	20.63
1929	•••		25.21
1930	• • •	• • •	29.50
1931	•••		26.10
		-	0.01.4.0
Quinquennial average	•••	• •	26.52
1000		-	07:04
1932	• • •		25.84

Two thousand, six hundred and twenty-four deaths were registered yielding a death rate of 25.42 per mille as against the average rate of 27.37 for the previous five years.

1927	• • •		27.55
1928	# L *	• • •	33.51
1929	• • •	• • •	30.82
1930	•••	• • •	38.50
1931	• • •	• • •	30.50
Quinquennial average	b • c	• • •	27.37
1932	•••	•••	25.42

A comparison of the tables shows that the birth and death rates for the year under report are about the same and that Mysore has consistently been registering lesser number of births than deaths since 1927. The population however has increased during the last decade showing thereby that the registration is very defective. The Health Officer is requested to rectify the defect in the system of registration of vital events.

Seventy still-births were registered as against 97 in

the year previous.

Three hundred and twenty-nine deaths of infants under one year of age were recorded, yielding an infant mortality rate of 111.59 as compared with 105.60 during 1931.

Two hundred and fifty six attacks with 175 deaths from plague were reported. Twenty thousand, nine hundred and eight anti-plague inoculations were done.

One hundred and thirty-one attacks with 57 deaths from smallpox, 24 fatal cases from influenza and 15 from typhoid were registered. Thirteen thousand, eight hundred and ninety vaccinations were performed of which 6,835

were primary. Five thousand, three hundred and ninety-

four primary cases were reported successful.

The Health Officer and his staff inspected 1,730 premises and issued 189 notices under various bye-laws under the Municipal Regulation. In 80 cases, the terms of the notices were complied with. Two hundred and thirty-four prosecutions were launched, of which, 89 were convicted, 22 acquitted, 75 withdrawn and 48 were pending disposal at the close of the year. A sum of Rs. 297-8-0 was realised as fines.

The Veterinary Inspector in charge and the Sanitary Staff inspected the slaughter houses and mutton stalls regularly. The meat supplied was of good quality. Forty-five thousand, nine hundred and seventy-one sheep, 19,481 goats, 2,420 bullocks, 1,508 cows and 629 buffaloes were slaughtered. The Health Officer and his staff inspected coffee hotels, eating houses, bakeries, and aerated

water factories.

In the laboratory attached to the Health Office, 317 samples of water and 3 of milk were bacteriologically analysed. In addition, 3 fæcal samples, 1 urethral smear and 119 rodents were examined. Twenty-four of the rodents were found positive for plague.

Lectures with the aid of lantern slides, were delivered on plague, smallpox, cholera and other health subjects in

the various mohallas.

The malaria control operations were continued during the year by the Special Malaria Unit maintained by the Municipality. In August, a spleen survey was made by the Superintendent, Bureau of Epidemiology and Communicable Diseases. Of the 1,717 children examined, 67 showed enlarged spleens of various sizes, the spleen rate being 3.9 as against 11.7 in 1930 and 7.5 in 1927. The citizens have appreciated the benefits of the operations.

One thousand, four hundred and fifty-two stray dogs

were destroyed.

A sum of Rs. 62,533 was expended on various sanitary improvements in the city as detailed below:—

Public convenience Water-supply Drainage works Anti-malaria operations	•••		•••	Rs. 27,453 5,166 2 8,966 948
		Total	> 0 +	62,533

Private associations like the Gunamba Maternity and Childwelfare Trust, the Civic and Social Progress Association and the City Branch of the Indian Red Cross Society, have been carrying on childwelfare work in the City. In the various centres established by these associations babies were bathed, fed on milk, weighed and medically advised. Ante-natal clinics are held and expectant mothers are advised. These centres are run at a cost of Rs. 19,200 per annum.

In the Epidemic Diseases Hospital, Mysore, 485 patients were admitted for treatment. Of these 1 case was for cholera, 70 for plague, 47 for smallpox, 80 for

tubercular affection and 10 for leprosy.

Kolar Gold Field: (Population 85,103).

Mr. M. Ramachandra Rao, B.A., M.B.B.S., C.P.H., held charge of the office of the Medical Officer of Health, Kolar Gold Field, till the 28th April 1932 when he was relieved by Mr. G. N. Seshadri, L.M.S., D.P.H. The latter continued

in charge till the close of the year.

During the year under report 2,796 births with a birth-rate of 44.28 per mille were recorded as against 3,267 births and a birth-rate of 38.38 during 1931. Of the total births 36.51 per cent were in the Sanitary Board Area and the rest in the Mining Area. The following table gives the birth-rates for 10 years 1923-32.

	**		
Year.		R	ate per mile.
1923		• • •	38.58
1924	***	•••	40.67
1925	•••	• • •	38'01
1926	• • •	• • •	39.40
1927	• • •		38'12
1928	• • •	• • •	38.67
1929		• • •	38.18
1930	• • •	• • •	33.85
1931	• • •	h w •	38.38
1932	* * *	• • •	
1004	* * * *	• • •	44.28

Eight hundred and thirty or 22.02 per cent of births were conducted in the Government Maternity Hospital, Robertsonpet, and the Maternity Ward of the Champion Reef Dispensary, 1,578 or 41.86 per cent by qualified midwives and dais, and the rest under unskilled aid. It will be seen that 63.4 per cent of the births received skilled aid.

The Mining authorities maintained 9 midwives and the Sanitary Board 2, one of whom was attached to the Champion-Reef Dispensary.

A total of 2,595 deaths from all causes was recorded as against 2,300 during 1931. The rate per mille of population was 30.49, as against 27.02 in the previous year. The death-rates for the last 10 years are given below:—

Year.		$D\epsilon$	eath-rate.
1923		• • •	23°08
1924	* * *		28.15
1925	• • •	• • •	25.43
1926	•••		26.18
1927		• • •	21.19
1928	• • •	++•	24.40
1929	• • •	• • •	25.05
1930	ê φ D	• • •	$25^{\circ}25$
1931	• • •	• • •	27.02
1932	•••	• • •	30.49

It is observed that the death-rate reached maximum in 1932.

The deaths classified according to age-groups are as hereunder:—

Sl. No.	Age Group				No. of deaths	Percentage of total deaths
1	Under 1	year	• • •	• • •	692	26.67
2	1 and u	nder 5	•••	• • •	480	18•49
3	5 ;.	10		•••	98	3.77
4	10 ,,	15	• • 5	• • •	71	2.74
5	15 ,,	20	•••	**************************************	77	2.97
6	20 ,,	30	٠.,	• • •	254	9.79
7	30 ,,	40		•••	204	7.86
8	40 ,,	50	•••	* * *	173	6*67
9	50 ,,	60	•••	•••	138	5.32
10	60 and a	above	401	•••	4.08	15.72

Deaths distributed according to causes are tabulated below:—

	Cause of dea	ıth		Number of deaths	Percentage to total deaths
1	Plague	• •		121	4.28
2	Smallpox		•••	13	0.20
3	Malaria	4 5		161	6.50
4	Typhoid			14	0.20
5	Influenza		• •	33	1.27
6	Consumption			82	3.16
7	Pneumonia			293	11.29
8	Dysentery, diarrhoea,	, etc.	•••	300	11.56
9	Respiratory diseases		•	273	10.52
10	Suicide		,	2	.07
11	Snake bite		,	2	.07
12	Accidents			111	4.27
13	Premature births, etc	•		35	1.35
14	All other causes	• • •	• •	1,157	44.58

During the year, 203 attacks with 121 deaths from plague and 80 attacks with 13 deaths from smallpox were registered. Plague chiefly affected Robertsonpet, Andersonpet, Oorgaum village and the Mining Area. Eighteen thousand, four hundred and sixteen anti-plague inoculations and 38,250 vaccinations were done. The percentage success rate among primary vaccinations was 87.48 and revaccinations 51.11. Fourteen deaths under typhoid, 33 under influenza, 300 under diarrhoea occurred.

Six hundred and ninety-two children under one year of age died yielding an infant mortality rate of 183.6. This is slightly more than in 1931 (179.36).

The following table gives the infant mortality rate for ten years, 1923-32.

	Year		Infant mortality rate	Year			Infant mortality rate
1923	•••		187.80	1928	• • •	• •	193 15
1924		• • •	198.54	1929	• • •		195.93
1925	• • •	}	199.82	1930		• • •	206.80
1926			196.53	1931			179'36
1927			184.26	1932		•••	183.10

Deaths classified according to causes were, small-pox 3, malaria 1, influenza 3, diphtheria 1, fever 5, dysentery 9, diarrhœa 35, bowel complaints 5, pneumonia 32, debility 299, bronchitis 36, asthma 1, premature births 35, consumption 1, convulsions 136, malnutrition 72, and all other causes 18.

Filtered and chlorinated water is supplied from

Bethamangala to the Mining Area and Robertsonpet.

A scheme costing Rs. 13,000 for extending the filtered water-supply to Andersonpet and the cooly colonies attached to it was sanctioned and the work was put on hand. An estimate to equip a step-well in Soregowdankote village with a hand pump was sanctioned and the work is under progress. The drinking water wells of Kalkere, Pichapalli, Kadaregowdankote, Lakkapalli, Imarspura, Byraganhalli, Thammenhalli and Kudigal were improved. New wells were provided for Reddihalli and Masikam.

A resume of work done in the Laboratory during 1932.

	Nature of work.		Number or quantity.
1.	Water from Bethamangala		26
2.	Liver and Spleen of cattle for Anthrax	• • •	60
3.	Blood for Widal		8 .
4.	Rats examined for plague	• • •	70
5.	Blood smears for malaria		4
6.	Urine for albumin and sugar		21
7.	Smears for gonococci	•••	13
8.	Motion for amoebae		4
9.	Sputum for B. Tuberculosis	• • •	1
10.	Smear for diphtheria	• • •	1
11.	Milk analysed		13
12.	Ghee analysed	• • •	12
13.	Sparrows for plague		$oldsymbol{2}$
14.	Crows for plague		1
15.	Dogs' brains sent to Coonoor		39
16.	Persons recommended for anti-rabic treatment	,	
			77

Three hundred and sixty-three persons were treated in the Epidemic Diseases Hospital, Robertsonpet, during

the year under report. Of these 210 were discharged, 134 died and 19 remained over on the last day of the year, as per statement:—

Nature of Disease		Total admitted	Dis- charged	Died	Remained over on 31st Dec. 1932			
Plague Pneumonia	• • •	196	71	108	17			
Prieumonia Pyrexia	• • •	34	28	6	1			
Rheumatism		1	1		• • •			
Smallpox	• • •	76	64	12	• • •			
Syphilis	• • •	1	1	•••	•••			
T. B. Lungs		1	1	• • •	• • •			
Other infectious diseases		28	26	1	1			
Diabetes		1	• • •	1	•••			
Other diseases of the Respi-								
ratory system		1		1				
Other diseases		3	3	***	• • •			
Cases of poisoning		9	9	•••	• • •			
Total		363	210	134	19			

The practice of licensing dogs continued during the year. One thousand eight hundred and fifty-six dogs were killed with strychnine hydrochloride. Two hundred and sixty-one dogs which had bitten persons were kept under observation for rabies. Thirty-nine dogs' brains were sent to Coonoor for examination. Seventy-seven persons were recommended for anti-rabic treatment.

Pits and hollows were all drained to prevent stagnation of water and mosquito-breeding. Removal of rank vegetation and destruction of cactus was undertaken on a large scale. Two hundred and ninety notices for sanitary offences were issued during the year and 23? cases against 236 persons were launched in the court. Of these, 156 cases were withdrawn as the parties complied with the terms of the notices. Twenty-seven persons in 24 cases were convicted and 52 cases were pending disposal at the close of the year. A sum of Rs. 53 was realised in the shape of fines.

School-going children in 10 villages were examined during the year by the Health Officer and suitable advice given where defects were noticed.

Three of the villages, Soregowdankote, Neralkere and Ithandahalli were converted into model villages at a total

cost of Rs. 1,500 by providing protected water-supply and borehole latrines and opening out new streets and lanes.

(b) District Health Organisations.

Bangalore District.—(Population 10,80,413).

During the year 22,452 births, giving a birth rate of 20.6 per mille were registered, as against 23,418 births with a birth rate of 21.6 during the previous year.

A total of 14,412 deaths was recorded as against 15,274 deaths during 1931. The death-rates worked up

to 13.3 and 14.1 respectively.

Two thousand, two hundred and twenty-five children under one year of age were reported dead, yielding an infant mortality rate of 99.1 per 1,000 live births registered.

Plague prevailed in all the taluks accounting for 1,031 attacks and 605 deaths. A total of 69,492 anti-plague

inoculations was performed.

Smallpox accounted for 470 attacks with 77 deaths. Twenty-two thousand, one hundred and twenty-six vaccinations and revaccinations were done. The taluks most affected were Bangalore, Dodballapur, Magadi, Closepet, Chennapatna and Anekal.

The District was free from cholera, influenza and

relapsing fever during the year.

The District Medical and Sanitary Officer visited 10 places on epidemic duty. He inspected during his itinerary 103 schools, examined 4,195 children, and prescribed treatment for 1,036 children. The common ailments noticed by him were skin disease (scabies), ear, nose and

eye complaints and digestive disorders.

The 13 Municipalities in the District Rs. 887-12-0 on drainage works, Rs. 796-3-0 on water works and Rs. 7,341-1-3 on other sanitary improvements. In all, they issued 330 notices for sanitary offences of which 233 were complied with, 37 prosecuted and 18 pending disposal at the close of the year. A sum of Rs. 64-8-0 was recovered as fines. The Municipalities employed in all 151 sweepers besides the supervision staff.

Mysore District.—(Population 15,11,126). Mr. G. M. Dominick, M.R.C.S., D.P.H., continued to be

the District Health Officer throughout the year.

Twenty-one thousand, two hundred and ninety-two births giving a birth-rate of 14.08 per mille and 17,618 deaths with a death-rate of 11.65 per mille were registered.

One thousand one hundred and seventy-nine infants under one year of age were reported dead, giving an infant mortality rate of 53.02 per 1,000 births registered. This

is too low to be accepted as anything near correct.

One thousand nine hundred and five, 301,557 and 14 deaths were accounted for by plague, cholera, small-pox and measles respectively. On receipt of information of outbreak of plague, anti-plague measures such as inoculation and disinfection were instituted and medical aid rendered.

Twenty-eight thousand five hundred and eighty-four primary and 2,241 revaccinations were performed by the vaccinators. The medical subordinates did 2,907 primary and 722 revaccinations. Twenty-seven thousand and fifty primary and 323 revaccinations were reported successful.

Malaria prevailed in almost all the taluks in the District and to a severe extent in parts of Mandya taluk brought under irrigation under the Irwin Canal. Free

distribution of quinine was resorted to.

The District Health Officer visited all the major and minor Municipalities on routine inspection duty and attended 8 jatras for making necessary sanitary arrangements. The drinking water sources at the jatras were all

treated with perchloron.

Twenty-four Municipalities in the District incurred an expense of Rs. 8,994-11-6 on drainage, Rs. 4,425-2-0 on water works, Rs. 2,235 on dwelling houses and Rs. 9,745-13-1 on other sanitary improvements. Five hundred and sixty-five notices were issued. Four hundred and forty-seven were complied with, 34 prosecuted and 95 were pending disposal at the close of the year. Rs. 40-12-0 were recovered in the shape of fines. Two hundred and ninety-two sweepers were employed in all.

Hassan District.—(Population 596,937).

Six thousand eight hundred and one births and 6,463 deaths were registered, working up to birth and death rates of 11.4 and 10.3 per mille of population respectively.

Seven hundred and forty-eight infants under one year of age were reported dead, giving an infant mortality

rate of 109.9 per 1,000 live births registered.

Plague prevailed in 35 villages of 6 taluks, 399 attacks with 249 deaths having been recorded. The taluks of Channarayapatna, Arsikere and Arkalgud were the worst affected. Timely preventive and curative measures

were adopted. Eleven thousand seven hundred and

fifty-nine anti-plague inoculations were done.

Two fatal cases of cholera were reported from Begur village in Channarayapatna taluk. Prompt action was

taken to prevent the spread of the disease.

One hundred and eighty-four attacks with 31 deaths from smallpox were reported from 20 villages. Hassan and Hole-Narsipur taluks contributed 64 and 41 attacks and 12 and 6 deaths respectively. Seventeen thousand nine hundred and thirty-seven vaccinations and revaccinations were performed.

Malaria prevailed in all the taluks. Quinine was

freely distributed through all the available agencies.

Influenza accounted for 30 deaths.

Five major and 3 minor jatras were held during the year. Necessary arrangements for conservancy, water-supply and lighting were made. Temporary roads were constructed to facilitate traffic.

The District Medical and Sanitary Officer was out on tour for 95 days visiting 50 places and inspecting 10 schools. He treated 597 children in the schools inspected.

The expenditure on the principal sanitary improvements in the 12 Municipalities of the District amounted to Rs. 19,191-12-7, Rs. 9,859-13-6 being on drainage works, Rs. 5,497-6-1 on water works, Rs. 493-0-0 on rest-houses and Rs. 3,353-9-0 on other sanitary improvements. One hundred and sixty-three sweepers in all were employed.

Two hundred and forty-nine notices were issued under the Municipal Regulations, of which 196 were complied with, 17 prosecuted, and 36 pending disposal and action.

Fines to the extent of Rs. 30 were recovered.

Kadur District. - (Population 3,47,715).

Five thousand and two births and 5,383 deaths were recorded yielding birth and death rates of 14.4 and 15.2 respectively. It will be noticed that deaths exceed births by 381. Five hundred and seventy-six infants under one year were reported dead, giving an infant mortality rate

of 115.2 per 1,000 live births.

Plague prevailed in a virulent form in Chikmagalur, Kadur and Tarikere taluks and Narasimharajpura subtaluk, affecting in all 66 places. The towns of Chikmagalur, Birur and Tarikere suffered most. There were reported a total of 559 attacks with 437 deaths. With the co-operation of the Medical Department, all precautionary measures were adopted to combat the spread of the

disease. A total of 14,579 anti-plague inoculations was

performed.

Smallpox accounted for 161 attacks and 38 deaths. Eleven thousand seven hundred and twenty-six vaccinations were done.

Malaria was no less severe than it was during the preceding year accounting for 2,926 deaths. Free distribution of quinine was resorted to through the agencies of Sanitary Inspectors, Amildars, Sub-Assistant Surgeons and Village Panchayets. The demand for quinine from rural parts is increasing year after year, the people having realised the value of the drug,

Systematic administration of quinine to school children through the Sub-Assistant Surgeons in charge of dispensaries in the Malnad Areas was continued during the year with very good results. The District Medical and Sanitary Officer visited 13 towns and 22 villages and the medical subordinates 101 villages. They inspected 34 schools and examined 1,150 children and treated 334.

Rupees eight hundred and sixty were spent on drainage, Rs. 13,999-15-0 on water works and Rs. 3,594 on other sanitary improvements by the nine Municipalities

in the District.

One hundred and twenty-nine notices for sanitary defects were served, of which 84 were complied with and 40 were pending disposal. One hundred and fifty sweepers in all were employed.

Shimoga District.—(Population 519,987.)

A total of 9,787 births and 8,312 deaths were reported giving birth and death rates of 18.8 and 15.9 respectively per mille of population. The infant mortality rate was 123.2.

Plague was reported from Shimoga, Channagiri, Honnali and Sorab taluks. In all, 85 villages were infected, 57 in Shimoga, 16 in Channagiri, 8 in Honnali and 4 in Sorab taluks. There occurred in all 472 attacks and 333 deaths, Shimoga taluk alone reporting 334 attacks with 248 deaths. A total of 23,293 anti-plague inoculations was done.

One village in each of Channagiri and Honnali taluks

reported a case of cholera, of which one proved fatal.

Malaria prevailed extensively in the taluks of Sagar, Nagar and Thirthahalli and to a lesser extent in some villages of Shimoga, Shikarpur and Sorab taluks. The District Board made arrangements for free distribution of quinine in the affected areas.

Five important cattle fairs were held in the District. Necessary arrangements for the sanitation of the places were made. There was no outbreak of any epidemic at the fairs.

The District Health Officer visited 45 villages on epidemic duty. During his itineration, he examined 2,473

children in 73 schools.

In the 12 Municipalities in the District, a sum of Rs. 1,565-1-5 was expended on drainage, Rs. 2,238-14-0 on water works and Rs. 3,178-15-11 on other sanitary improvements. They employed 143 sweepers.

Two hundred and ninety-eight notices under sanitary sections of the Municipal Regulations were issued, of which 208 were complied with, eight prosecuted and 82

were pending disposal at the close of the year.

Chitaldrug District.—(Population 6,56,569.)

During the year under review, 13,000 births and 9,663 deaths were registered. The birth and death rates worked up to 19.8 and 14.7 per mille of population. A total of 1,125 infants under one year of age died, giving an infant mortality rate of 86.5 per 1,000 live births registered. Plague prevailed in rather a severe form in all the taluks, excepting Challakere, Molakalmuru and Hiriyur accounting for 825 attacks and 519 deaths. The usual preventive measures were adopted. Twenty-seven thousand nine hundred and seventy anti-plague inoculations were performed.

The District was practically free from smallpox excepting for three attacks, two in Holalkere taluk and one in Davangere taluk. The District Medical and Sanitary Officer and his subordinates visited 210 villages on epidemic duty. The Sub-Assistant Surgeon, Harihar,

inspected three schools, examining 213 children.

Following rainfall, malaria prevailed in many villages.

The District Board distributed quinine tablets free.

During the year under report, five new guinea-worm well works were sanctioned at an aggregate cost of Rs. 6,430. Two well works were abandoned and 10 were completed with an outlay of Rs. 3,094.

The 11 Municipalities in the District spent Rs. 60,911-14-9 on sanitary works, Rs. 25,401-2-0 being on drainage, Rs. 13,642-2-3 on water works and

Rs. 21,868-10-6 on other sanitary improvements.

Six hundred and fifty-eight notices were issued under various health sections of the Municipal Regulations, of

which 406 were complied with, 122 prosecuted and 130 were pending disposal. A sum of Rs. 317 was realised as fines. One hundred and fifty-seven sweepers in all were employed.

Tumkur District:—(Population 861,405.)

There were reported 16,662 births and 10,153 deaths, yielding birth and death rates of 19'2 and 11'8 per mille respectively.

One thousand six hundred and sixty-two infants under one year of age were reported dead, yielding an infant

mortality rate of 99.7 per 1,000 births registered.

Plague prevailed in a few villages of all the taluks, except Madhugiri, Sira and Pavagada and the towns of Tumkur, Tiptur and Gubbi. In all, 40 villages were affected reporting 380 attacks with 249 deaths. Seven thousand and ninety-nine inoculations against plague were done.

Smallpox prevailed in a mild form, few villages in each of Kunigal, Tumkur and Pavagada taluks reporting cases. Twenty-one thousand one hundred and twenty-two vaccinations and revaccinations were done.

A mild epidemic of malaria was reported from the taluks of Pavagada, Sira, Chiknayakanhalli, Kunigal and Koratagere. The Sub-Assistant Surgeons accompanied by the range Sanitary Inspectors visited the villages and rendered medical aid.

The Sub-Assistant Surgeon of Koratagere continued to pay bi-weekly visits to Rampura village to treat malaria

patients.

The major jatras in the District, viz., Kyamenhalli, Nagalmadike, Patnaikanhalli, Yediyur and Seebi, were held in the year under report. Sanitary arrangements were made at each of those jatras for daily removal of rubbish, providing temporary latrines and safe drinking water supply.

The District Medical and Sanitary Officer visited eight villages on epidemic duty and 22 on routine inspection and the Medical subordinates 113 on epidemic duty. Thirty-three schools were inspected, four by the District Medical and Sanitary Officer and the rest by the medical subordinates. They examined 2,366 children and treated 695.

The 10 Municipalities in the District spent Rs. 9,005-15-4 on drainage, Rs. 40,951-14-6 on water works, Rs. 655 on dwelling houses and Rs. 9,085-3-7 on other sanitary improvements. One hundred and seventy-seven sweepers in all were employed by them.

Out of a total of 236 notices issued, 197 were complied with, nine prosecuted and 30 were pending disposal.

Kolar District.—(Population 8,49,037).

Seventeen thousand eight hundred and sixty-two births with a birth-rate of 21.0 and 13,549 deaths with a death-rate of 15.9 and 2,076 deaths among infants under one year of age with an infant mortality rate of 116.0 were recorded.

Plague prevailed in a severe form in the District, nine of the taluks reporting infection. A total of 510 attacks and 300 deaths were reported, of which Chintamani (138-96) and Kolar (122-69) taluks were the worst affected accounting for 260 attacks and 165 deaths. Chikballapur taluk reported 90 attacks with 48 deaths and Malur 91 attacks with 53 deaths. Twenty-three thousand two hundred and twenty-three anti-plague inoculations were performed.

Two hundred and fourteen attacks with 27 deaths from smallpox were reported from four of the taluks, Kolar being the most affected with 117 attacks and 14 deaths, Goribidnur coming next with 74 attacks and nine deaths.

Two hundred and twenty-two villages were inspected by the District Medical and Sanitary Officer and medical subordinates, 78 by the former and the rest by the latter. They inspected 20 schools in all and examined 1,493 children.

Ten jatras were held in the District. In none, there was any epidemic outbreak. Usual sanitary arrangements were made.

The 11 Municipalities in the District spent Rs. 6,481 on drainage, Rs. 4,807 on water works, Rs. 245 on dwelling houses and Rs. 8,515 on other sanitary improvements. One hundred and sixty-two sweepers were employed by them all.

(c) Voluntary Organisations

Indian Red Cross Society, Mysore State Branch.—The Director of Health continued as the Honorary Secretary and Treasurer of the Mysore State Branch of the Indian Red Cross Society and Sir Charles Todhunter, K.C.S.I., J.P., Private Secretary to His Highness the Maharaja of Mysore, as the Chairman of the Executive Committee.

In accordance with the suggestions made by Miss Norah Hill, Organising Secretary, Headquarters, the work of the Society was grouped into three sections, namely, (1) General, (2) Junior Red Cross and (3) Maternity and Childwelfare, each under the management of an honorary secretary. The Director of Health and the Director of Public Instruction were appointed Honorary Secretaries to the General and Junior Red Cross sections respectively, while Mrs. Kamalamma H. Dasappa accepted the office of Honorary Secretary, the Maternity and Childwelfare section.

Dr. Ruth Young, M.B.E., W.M.S., Director of Maternity and Childwelfare Bureau, Headquarters, visited Mysore State in August 1932. She inspected the work of several childwelfare centres at Bangalore and Mysore. She gave a public lecture at Mysore on Maternity and Childwelfare and attended one of the meetings of the Mysore City Branch of the Red Cross Society.

The Society suffered a great loss in the death from plague of Rao Bahadur Dharmaprakasha Sowkar D.

Banumaiah, who was one of its benefactors.

During the year, a successful health and baby week was organised at Mysore, which secured a certificate of merit from the All-Empire Baby Week Committee, London, having been declared the second best in the world. The occasion was availed of to open two more maternity and childwelfare centres, a Toddlers' centre in Gajasala and a creche at the Krishnarajendra Mills.

Five hundred and ninety-three persons were enrolled as members during the year, of which 2 were as life-associates, 46 as members, 358 as associates, 162 as helpers and

15 as annual members.

The Bureau of Health Education carried on the

secretariat work of the Society during the year.

The Society gave donations to the extent of Rs. 1,400 to several institutions. The Junior Red Cross groups were started in nine High Schools. First Aid and Home Nursing Classes were held in 20 institutions and certificates were issued to successful candidates in the examinations on the subjects. Books on Health were sold to school students. The Mysore State team won the Obedulla Shield and money prize in the All-India Ambulance Competitions held at Lahore.

With a view to push on the Anti-Tuberculosis work, a sub-committee was formed. A donation of Rs. 500 was received from the headquarters to facilitate the work of

the committee.

Civic and Social Progress Association, Mysore.—During the year under report, 1,874 ordinary baths and 1,815 oil-baths were given to the children attending the centre The average daily attendance at the centre was 25. Three thousand two hundred and eighty-one and quarter seers of milk were distributed to poor children. The nurse in charge conducted two labour cases and vaccinated 26 children.

Civic and Social Progress Association, Bangalore.—
This Association runs a milk centre and a baby clinic at which antenatal clinics are also held. The average daily attendance of babies at the centre is 40. These are given baths daily and oil-baths occasionally. The honorary lady doctor prescribes the feeds, notes down the progress in weight and attends to minor ailments. Milk to the value of about Rs, 1,000 was distributed. The lady doctor held 12 clinics and examined 910 expectant mothers. The nurse in charge paid 60 domiciliary visits and conducted 38 labour cases. Eight children were vaccinated at the centre.

Sree Gunamba Maternity and Childwelfare Trust, Mysore.—In the month of March 1932, two more centres, the Subramanya Milk Centre and Mallamma Milk Centre, were opened in addition to the three already existing. A creche was also opened in the third quarter of the year in

the Sri Krishnarajendra Cotton Mills.

Thirty-seven thousand three hundred and thirty-two ordinary and 5,983 oil-baths were given to the children attending the centres. The honorary lady doctors held clinics which were very popular. They held 25 antenatal and 28 baby clinics, examining 23 pregnant women and 943 children. They also treated 11,658 children for minor ailments. The average daily attendance at the clinics was 60. All children attending were fed on pure cow's milk. The nurses in charge paid 694 domiciliary visits and conducted 466 labour cases. They also did 381 primary vaccinations.

Childwelfare Centres, Kolar Gold Field.—All the four centres were working during the year under review. Five thousand four hundred and thirty-two children were given daily baths and 1,184 were treated for minor ailments. The Lady Health Visitor and nurses paid 2,641 pre-labour

and 3,199 post-labour visits.

Mahila Seva Samaja, Bangalore — Ante-natal and baby clinics were regularly held every week by Dr. Miss Rozario

and Miss Vaz. The attendance at these clinics was 510 and 1,943 respectively. The lady doctors examined and suitably advised the expectant mothers. They also treated 350 children for minor ailments. The nurses attached paid 35 domiciliary visits a week and conducted

20 labour cases for the year.

Dr. Mrs Ratnamma Isaac delivered a series of lectures on health subjects such as "Common Ailments of Women," "Care of Women during Pregnancy" and "Common Ailments of Children and their Simple Remedies." There was a lecture on "Temperance" by Miss. Narayana Das. Miss Sappo spoke on "Social Work in England," especially that of the Leister Sisters at Kingsley Hall. Twelve lectures on "First Aid" were also delivered and two cinema shows on health subjects were screened.

Two boys were given clothing free and two cod-liver oil.

Seva Ashram, Malleswaram, Bangalore City.—On an average, 150 children were given soap water bath every day, soap being distributed free. Lectures were delivered on health subjects, such as plague, small-pox, cholera and temperance. The Ashram dispensary catered to many of the local residents. An Ayurvedic lady doctor with maternity training joined the staff during the year.

Childwelfare Centre, Military Area, Hebbal, Bangalore.—The Social Welfare Committee, Military Area, Hebbal, runs the centre under the management of the Medical Officer, Mysore State Troops, Station Hospital, and the Lady Doctor, Female Dispensary, Hebbal. The

centre is located in the Station Hospital.

The Lady Sub-Assistant Surgeon held nine weekly antenatal and baby clinics during the third quarter of the year. Eighty pregnant women and sixty children attended them. She weighed the children once a week and prescribed the feeds and attended to their minor ailments. Milk was distributed free to the poor children resident in the locality.

The nurse in charge paid 2,778 house visits, and

conducted 13 labour cases.

Six lantern lectures were delivered during the quarter,

July to September 1932.

Gurukula Seva Sangha. Kengeri.—During the half year, July to December 1932, 106 lectures on health

subjects aided by lantern slides were delivered in the rural areas. Pamphlets on various subjects were distributed. Thirty-six baths were given to the depressed class children in the locality. Free clothing was supplied to 30 children.

The Sangha organised a health exhibition at Yalahanka. It was attended by 2,000 factory workmen and raiyats from the neighbouring villages. The attendance in the outpatients' department of the dispensary run by the

Sangha at Kengeri was 4,435.

The Shimoga Baby Clinic.—Baby clinics were held every Saturday. The babies were weighed and their progress noted. Their ailments were attended to. As an adjunct, antenatal clinics were started during the year, which gained popularity in no time. A good number of expectant mothers attended the clinics for advice. They were thoroughly examined, pelvic measurements taken and advised. Venereal cases amongst them were also treated.

BUREAU OF EPIDEMIOLOGY AND COMMUNICABLE DISEASES.

(a) Malaria Control Work.

During the year 1932, as per Government order No. G. 8617-19—P. H. 69-31-6, dated 30th April 1932, the former Malaria Officer was made Superintendent of the Bureau of Epidemiology and Communicable Diseases, and third class health officer, Mr. Nur Singh, formerly in charge of Mudigere Station, became Malaria Officer under this bureau. Consequent on the retirement of Mr. M. Muniswamy, Mr. Cheluvarayan was placed in charge of Hiriyur Station after some months of training. The vacant post at Mudigere was filled by the transfer of Mr. K. R. Venkatesan from the Mandya Rural Health Unit.

The experimental control of Malaria by means of paris-green continued in the three stations of Nagenhalli, Mudigere and Hiriyur. The control area around the village of Nagenhalli and the town of Mudigere was reduced during the year from one mile to half a mile radius. There was no apparent effect on the control by the end of the year. As was done last year, all control work was stopped in the Mudigere area for the last four months of the year. This is the only one of the three stations which seems to have one definite transmission

season. During these months, the staff was engaged in routine larval and adult catching to verify the absence of carrier species and in a sanitary survey of the town preparatory to possible later establishment of more complete health work.

Anti-malaria operations in Bangalore and Mysore cities continued during the year. Paris green for open water and Gambusia for wells were the methods employed. An examination of 777 children in Mysore city gave a spleen rate of 3.9 per cent. Previous examinations in 1927 and 1930 had given rates of 7.5 and 11.7 per cents respectively. An examination of 1,622 children in Bangalore city gave a spleen rate of 0.7 per cent. This was the sixth successive yearly examination, the previous yearly rates being 23.2, 11.5, 8.7, 6.1 and 0.6 last year.

After an initial year of observation, an experiment in the use of small weekly doses of plasmoquine compound as the only measure of control of malaria was begun in Marikanave village early in 1930. The necessary drug was purchased from a grant made by the Chitaldrug District Board and the distribution of the drug once a week, as well as the necessary spleen and blood examinations, were undertaken by the staff of Hiriyur Station, which is 12 miles away. The response of the people was satisfactory and it was found possible to treat from 90 to 95 per cent of the village population each week. Examinations made during the year of observation, 1929, gave a parasite rate of 50.3 per cent and a spleen rate of 84.5 per cent. Examinations made during 1932 gave corresponding rates of 12.5 and 46.7 per cents. During 1932, the Chitaldrug District Board found it impossible to renew its grant and the stock of plasmoquine compound was exhausted in August. By the end of the year, there were signs that the parasite rate would increase. Spleen and blood examinations will continue.

Malaria control work began in Nagenhalli and Mudigere Stations early in 1930 and in Hiriyur in April 1931. Examinations made in the Nagenhalli area in 1929, before control, gave parasite and spleen rates in children below ten years old of 37.5 and 83.9 per cents. The 1932 examinations of children in Nagenhalli village, for which complete control was attempted, gave parasite and spleen rates of 8.2 and 50.8 per cents. In the three surrounding villages, which were protected only partially, the 1932 rates were 18.1 and 63.8 per cents.

In the Mudigere area, the 1929 pre-control parasite and spleen rates were 31.0 and 78.6 per cents in children under ten years old. A 1932 examination of children in a village three miles from Mudigere town gave corresponding rates of 28.6 and 85.7 so that there was no evidence of a decline of malaria in this region as a whole. The 1932 rates for Mudigere town children were 7.7 and 51.0 while two partially protected villages in the peripheral area gave rates of 12.7 and 83.1 per cents.

In the Hiriyur area, the pre-control parasite and spleen rates were 33.7 and 43.1 in 1929 and 47.9 and 57.3 in 1930. In 1932, the rates for Hiriyur town were 13:7 and 36.3 while two partially protected neighbouring villages had rates of 19.9 and 26.11. Control work in

this area began in April 1931.

Since dissections made in previous years of mosquitoes caught in houses of the stations had yielded low infection rates, it was decided to try tent catching of anophelines in 1932. This method was tried in two villages near Mudigere town and in Marikanave after plasmoquine distribution had ceased. Two men slept in the tent and mosquito catches were made at 8 P.M., midnight, 4 A.M. and o A.M. Of 50 anophelines thus caught in the Mudigere area, on dissection, one gland infection was found. In Marikanave, 102 mosquitoes were caught in the tent and on dissection, three stomach and two gland infections were found.

In addition to the tent collections, mosquitoes were taken in the usual catching stations of Marikanave. Of 343 anophelines so caught, eight stomach infections and

none of glands infections were found.

Subsequent to the partial irrigation of the new Irwin Canal area, an epidemic of malaria occurred. Dissections were made of 707 anophelines caught in houses of this area in October and November. Infections were found in sixteen stomachs and ten glands.

Sivasamudram.

2. Akkihebbal 3. Chatnahalli 4. Hosakote town 5. Bhadravathi 6. T.-Narasipur

Irwin Canal Area

Malaria survey of the marginally noted towns or rural areas of the State were done during the year and recommendations made for control measures. By the end of the year, no action had been taken on these recommendations.

TABLE 1.

Blood and Spleen Examinations made in three Experimental Malaria Stations.

Protected Zone.

·		0-9)		10—1	9	20	and	over	A	ll ag	es
	No, Ex,	No. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent Inf.
Spleen not examined Spleen Negative P 1 2 3 4 5 All persons with palp-	14 492 146 187 99 38 3 	5 35 28 48 22 7 1 	35·7 7·1 19·2 25·7 22·2 18·4 33·3 	11 216 89 88 76 22 1 	0 19 11 16 14 3 0 	0.0 8.8 12.4 18.2 18.4 13.6 0.0 	53 126 19 20 20 21 4 2	45 5 1 3 3 2 0 0	7.5 4.0 5.3 15.0 15.0 9.5 0.0 0.0	78 834 244 295 195 81 8 2	9 59 40 67 39 12 1 0	11·5 7·1 16·4 22·7 20·0 14·8 12·5 0·0
able spleen.		146	14.9	503	63	12.5	265	18	6.8	1737	4	13.1
	965	473	49.0	492	276	56.1	212	86	40.6	1659	825	49.7

Table 2.

Blood and Spleen Examinations made in three Experimental Malaria Stations.

Peripheral Zone.

											-	
		0	2		10-1	.9	20	and	over	A	ll ag	es
	No. Ex.	Nc. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent Inf.	No. Ex.	No. Inf.	Per cent 1nf.
Spleen not examined Spleen negative P 1 2 3 4 5	8 200 40 77 43 17 2	3 21 8 21 11 6 0	37·5 10·5 20·0 27·3 23·2 35·3 0·0	8 76 31 30 20 12 2	3 8 5 7 9 3 0 0	37·5 10·5 16·1 23·3 4 5 ·0 25·0 0·0	19 21 10 9 3 3 1	5 4 2 1 1 1 0	26·3 19·1 20 0 11·1 100·0 33·3 0·0	35 297 81 116 66 32 5	11 33 15 29 21 10 0	31·4 11·1 18·5 25·0 31·8 18·7 0·0 0·0
All persons with palpable spleen.	179 	46	25 6	96	24	25.0	26	5	19 2	301	75	24.9
Grand total, all spleens	387	70	18.1	180	35	19.4	66	14	22.2	633	119	18.8
Spleen rate	379	179	47.2	172	96	9.8	47	26	55.3	598	301	50.4

TABLE 3.

Species of Malaria Parasites.

Peripheral Zone.
January 1, to December 31, 1932.

		Quartan	Per cent Inf.	42.9	45.7	20.0	44.5
	3.L.		.inI .oV	000	16	7	53
	Total for year	Tertian	Per cent Inf.	28.6	28.6	28.6	28.6
	tal fo	dusngusM	.laI .oV	20	10	41	34
	Hot	Tertian-	Per cent Inf.	9.87	25.7	21.4	26.9
		Benign	.luI .oV	20	6	က	32
		nfected	Total Number I	02	35	14	119
	q		Per cent Inf.	40.5	47.4	20.0	44.0 119
	ly an	metran9	.hal .oV	17	6	[m	333
TUR	(Hutchavvanahally and Babboor)	Tertian	Per cent Inf.	33.3	26.3	28.6	30.7
HIRIYUR	vvanaha Babboor	dangilaM	.haI .oV	14	70 - Cu	4	23
	tcha	TertiaT	Per cent Inf.	26.5	26.3	21.4	25.3
	(Hn	Benign	.lnI .oV	11	5	භ <u>ග</u>	19 2
	1	bətəəla	Total Number I	42	19	14	75
·			Per cent Inf.	11.1	33.3	:	20.0
F	Mudi	пвтивир	Yul .oN		22	:	<u>ල</u>
ERE			Per cent Inf.	9.99	0.09	:	53.3
MUDIGE	and	Per cent Inf. Malignant Tertian Tertian Tertian	.lttI .oV	70 70	က ည်	:	8
MU	sgal		33.3	16.7	:	28.7	
	He	Benign	.laI .oV	<u>ස</u>	-	•	4 22
		Infected	Total Number	6	9	:	15
	oura		Per cent Inf.	63.2	20.0	:	58.6
LI	Kalastwadi Siddalingapura and Laxmipur	Guartan	ful .oN	12 6	5 5(:	17 58
HAL	ddall	TELLISI	Per cent Inf.	5.5	20.0	•	10.4
NAGENHALLI	stwadi Siddalin and Laxmipur	tasngilsM nsitt9T	ful .oV		2 2(•	3 10
NA(and	Tertian	Per cent Inf.	9.18	30.0	•	31.0
	(Kale	Benign	.lnI.oN	<u>භ</u>	න න	•	9 31
		Infected	Total Number	19	10	:	56
				:	:	:	
		Age		:	;	:	
		¥		•	•		
				6-0	10—19	20 and over	All ages

TABLE 4.

Species of Malaria Parasites.

H H	<u> </u>	'IIII OIIOO IO T	5.	32.8	67	36.2
YEAR	Quartan	Per cent Inf.	58 39.5	21 32	4)22.	83 36
		No. Inf.		71		5
TOTAL FOR	Malignant naitreT	Per cent Inf.	0 20.4	34	4 22.2	24
T		-inI.oV	1 30	8 22		3 56
T.C	Benign nsitraT	Per cent Inf.	40.1	32.8	55.6	39.3
Ĕ.	asiaoa	.fnl.oV	59	21	10	06
	peted	Total Number I	147	64	18	229
		Per cent Inf.	0.79	8.44	:	64.4
II.	(Juartan	.ini.oV	316	2	:	38 6
AL	Tertian	Per cent Inf.	612.0	1 11.0	:	7 11.9
ΨY	JusugilsM	.lal .oV	611	-	:	7
PALAHALLI	Tertian	Per cent Inf.	9.0	11.0	:	3.7
P.	Benign	No. Inf.	13 26.0		:	59 14 28.7
	rected	Total Number In	50	0	:	59 1
5-3		Per cent Inf.	14.3	23.6	:	14.1
VE	Quartan	.luI.oV	61	4	:	10 1
MARIKANAVE	TIPINIOT	Per cent Inf.	ص ش	9.1	25.0	3.2 10
IKA	dangilsM Tertian		14 33	3 17	37	20 28
ARI		Per cent Inf.	52.4	8.8	0.0	57.1
M	Benign Tertian		22 52	0 58	9 75	-
		Total Number Linf.	42 2	17 10	12	7.1 41
		Per cent Inf.	0		- :	~
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HIRIXUR		Per cent Inf.				.3 I
RI	tasnzilsM asitroT	fal tace and	4 13.8	5 33.7	1 33.3	10 21 3
HI	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			നാ		
	Benign Tertian	Per cent Inf.	555.2	46	0.0	48.9
		Total Munder 12.	29 16	15 7	<u>ග</u>	47 23
	patoalo	Fer cent Inf. Total Number In			,	
田	Quartan		3 18.7	5 25.0	:	8 22.2
MUDIGERE		.fal.oV	_		:	
)IG	tnangilaM naitreT	Per cent Inf.	31.2	65.0		20.0
IOI		.lai.oV	0 5	0 13	_:	8 18
K	Tertian	Per cent Inf.	8 50.0	2 10.0	:	27.
	Benign	.ful .oM	}		:	36 10 27.8 18
	pətəəin	Total Number I	0 16	7 20	:	
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4			:	:	over	:
	Age			6		3968
	7		6-0	10-19	20 and	All age
				1(2(A)

Table 5.

Larval and Adult Catches in Control Areas.

Species Accountus Accountus Frid Frid <th>Species Nagenhalli Hiriyur Mudigere Nagenhalli Ptd. <th< th=""><th></th><th></th><th>Janı</th><th>January 1, to December 31, 1931</th><th>ecember 31</th><th>, 1931</th><th></th><th></th><th>Januar</th><th>January 1, to December 31, 1932</th><th>ember 31,</th><th>1932</th><th></th></th<></th>	Species Nagenhalli Hiriyur Mudigere Nagenhalli Ptd. Ptd. <th< th=""><th></th><th></th><th>Janı</th><th>January 1, to December 31, 1931</th><th>ecember 31</th><th>, 1931</th><th></th><th></th><th>Januar</th><th>January 1, to December 31, 1932</th><th>ember 31,</th><th>1932</th><th></th></th<>			Janı	January 1, to December 31, 1931	ecember 31	, 1931			Januar	January 1, to December 31, 1932	ember 31,	1932	
Precise Prec	Species Nagenhalli Hiriyur Mudigere Nagenhalli aconitus Ptd. Ptd. <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Adult Fe</td><td>males</td><td></td><td></td><td></td><td></td><td></td></t<>							Adult Fe	males					
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auchenitis,,,,,,,	acounitus		Ptd. Zone		Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone	Ptd. Zone	Pl. Zone
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TABLE 6.

Bangalore Spleen Surveys.

y began on 18, 1932	Spleen Rate	0.00 0.8 0.8	5
Survey July 1	Number Examined	186 415 175 331 515	1,006
began on 7, 1931	Spleen Rate	1.6	
Survey bo	Number Examined	189 348 147 290 497	4144
Survey began on July 17, 1930	Бріееп Кате	16.4 33.7 7.3 4.2	1
Survey k	Number Examined	134 295 134 20 5 327))
began on 5, 1929	Spleen Rate	14.5 12.8 6.1 4.2 7.3	>
Survey b	Number Examined	145 257 181 213 315	
began on , 1928	Spleen Rate	26.0 8.5 13.8 8.0 8.0 4.8	
Survey began on July 6, 1928	Number Examined	127 188 261 200 161	
egan on 2, 1927	Spleen Rate	31.5 21.6 21.6 8.4 8.4	
Survey began on June 22, 1927	Number Examined	1 62 221 156 164 166	3
	Area	Lal-Bagh Area Malleswaram Area Chamarajpet Area Basavangudi Area City Area	

Table 7.

Larval and Adult Catches in Bangalore City.

	Jan	nuary	7 1, to	o De	c. 31,	1931	Ja	anua	ry 1,	to D	ec. 31,	1931
Species	N		er of d Pu		vae	压	Nı		er of d Pu		æ	Fi
	2	3	4	P	Total	Adult	2	8	4	P	Total	Adult
A. barbirostris A. cullcifacies A. fuliginosus A. hyrcanus A. jamesii A. jeyporiensis A. listonii A. maculatus A. maculipalpis A. pallidus A. subpictus A. stephensi A. vagus	 2 4 9 18 6 5 1 5 7 14 13	128 17 9	3 4 15 7 3 2 75 8		6 12 32 58 15 9 2 360 39 23		22 64 9 243 7 27 3 2004 1082 30		5 4 1 47 1 2 311 1332	4	50 70 18 379 9 28 1 5 2 3,238 3,918 37	25 50 7 6 1 10 1,347 127 65

Table 8.

Larval and Adult Catches in Mysore City.

Species	∌	1	f Larvae and			No. of. Adult F
	2	3	4	P	Total	
A. aconitus A. barbirostris A. culicifacies A. fuliginosus A. hyrcanus A. jamesii A. jeyporiensis A. listonii A. maculipalpis A. pallidus A. stephensi A. subpictus A. vagus	51 125 363 32 38 178 20 48 567 89	34 123 369 21 42 113 31 32 612 71	49 33 201 8 10 49 1 28 24 457 25	21 27 5 2 118 3	302 960 61 90 345 1 79 101 1,754 188	5 1 389 410 3 9 27 2 15 1,080 221

(b) Hookworm Campaign Unit.

The campaign of mass treatment in the plantations in the Kadur and Hassan Districts commenced on 1st October 1931 and was continued till the 9th of March following. The Unit operated in the following areas:—

- 1. Balehonnur.
- 2. Sangemeswarapet.
- 3. Chikmagalur.
- 4. Lingadahalli.
- 5. Tadasa.

- 6. Saklespur.
- 7. Yeslurpet.
- 8. Sukravarasante.
- 9. Hanbal.
- 10. Arehalli.

The aid of the cinema propaganda was not availed of in this campaign, as it was thought unnecessary to repeat the shows in the same area covered in previous

years.

The hookworm unit field laboratory having been removed to the Public Health Institute at Bangalore, systematic examination of fæcal specimens, both before and after treatment was arranged by sending the samples by post to the Institute. Specimens were collected in seven estates both before and after treatment, except at Kathlekahn where after treatment samples were not received. The details of hookworm infestation are set down in table below:—

Table Showing the Result of Hookworm Examination before and after the Administration of the Treatment.

Non-managed			Before T	reatment	After T	reatment
	Name of Plantation	-5-	% Infected	Av. Egg. Count	% Infected	Av. Egg. Count
1.	Gantanaik		10.0	30	3.6	64.3
2.	Karady Kahn	,	70.0	1420	4.2	8.3
3.	Kathlekahn		77:1	1705.7	•••	•••
4.	Uggalli		52 ·6	605.3	•••	***
5.	Bettadamane		15*3	69.3	•••	•••
6.	Arehalli		84.6	1 292 ·3	10.0	95.0
7.	Biccode		30.0	230	• • •	•••

On the first April the Health Officer in charge of the Hookworm Unit was drafted for charge of the Irwin Canal tract Health Survey sanctioned in G. O. No. 1446—K. S. S. 4942, dated 12th March 1932. The survey was commenced from Krishnarajasagara where the Canal starts. The survey party which consisted of the Health Officer, two Assistant Sanitary Inspectors, a temporary clerk and three menials, moved in the canal zone visiting the villages and collecting notes in respect of population, registration of births and deaths, history of previous epidemics, etc., from the village officials. Observations of general sanitary conditions as regards the character of soil, site and surroundings, housing conditions, manner of rubbish

disposal, privy arrangements and condition of water-supply were made and recorded. Systematic examinations of all available people in the village were conducted to gauge the degree of malaria, hookworm and other helminthic infections, state of vaccination and other morbid conditions in the locality. Data collected in respect of each village or hamlet together with special recommendations suited to local conditions were drawn up in

individual reports.

The party was in camp till the 1st October, that is, for a period of six months and covered a substantial portion of the area just coming under the new irrigation scheme or likely to come under it in the near future. In all 161 villages including 44 villages situated just outside the canal tract were surveyed. The data obtained and the results of the examination varied to a considerable extent between place to place. However, for comparative purposes the 161 villages are grouped, according to their situation in the area, either commanded by the main canal or by one or other of its several branches as under:—

- GROUP I. Consisting of 25 villages situated in the area commanded by the main canal (6,000 acres).
- GROUP II. Consisting of 23 villages situated in the area commanded by the Maddur branch (30,000 acres).
- GROUP III. Consisting of 36 villages situated in the area commanded by the Cauvery branch (20,000 acres).
- GROUP IV. Consisting of 22 villages situated in the area commanded by the Keragode branch (10,000 acres).
- GROUP V. Consisting of 44 villages situated in the area just outside the irrigable area.

The data obtained with necessary recommendations are embodied in a sperial report submitted to the Director of Health.

Though the findings generally were somewhat similar to what obtained in other parts of the State, certain special conditions seem to have affected the degree of malaria in the area as was evident from a comparative study of previous and present records of survey for splenic index.

During the present survey a systematic examination of all available children in the villages by the Christopher's method of spleen examination was conducted and detailed measurements obtained. The average spleen rates for

the different groups of villages are as given in the table below:—

Table showing the Splenic Indices for the different groups of Villages.

Group	Area commanded by	Number of Villages in the Group	Average Spleen Rate for the Group
I. III. IV. V.	The main canal The Maddur branch The Cauvery branch The Keragode branch Outside the irrigable area	23 37 36 22 44	59°8 59°9 37°7 20°7 41°0

Forty-eight of these villages were surveyed in previous years. In groups II and III particularly, where 17 villages in each were previously surveyed, a spleen rate of only 11.3 was recorded. These are the groups of villages situated in the area where irrigation has already commenced or likely to be commenced in the near future, the network of canals and distributaries having been completed. Special recommendations were made in respect of these to control malaria. Twenty-one of the villages situated in low-lying tracts were recommended to be shifted to better situations.

During the last quarter of the year, a member of the unit toured in the Shimoga District and visited the Medical Institutions in the following places:—

1.	Shimoga	10.	Agumbe
2.	Chennagiri	11.	Megaravalli
3.	Basavapatna	12 .	Devangi
4.	Santhebennur	13.	Humachadakatte
5.	Honnali	14.	Nagar
6.	Nyamati	15.	Anjanapura
7.	Shikarpur	16.	Hosanagar
8.	Malur	17.	Bhadravathi
q	Thirthaballi		

where the campaign of mass treatment for Hookworm disease of the indigenous population was demonstrated to the local medical officers since this area was not visited in previous years. As this officer had to go on leave the entire district could not be covered. Sixteen institutions still remain which will be taken up in due course.

It may be mentioned here that in spite of several circulars and reminders the response from the several Medical Officers in the heavily infected zones is still not very satisfactory.

Table showing the details of hookworm mass treatment in the heavily infected Districts

Distr	at	No. of Medical	No. Trea	ted for Ho	ookworm	Total
DISUL		Institutions	Male	Female	Total	attendance
Shimoga Kadur Hassan Mysore	• •	34 30 42 52	2,116 3,398 4,720 708	1,195 2,125 2,177 94	3,341 5,434 7,051 1,984	70,166 164, 1 15 168,635 234,107

From the table above it is seen that out of an attendance of 637,023 patients only 17,810 were administered the special drugs recommended, thus averaging 2.7 per cent of the total attendance. This is not in keeping with the spirit of the present campaign. Perhaps further visits to the several institutions are needed to understand the difficulty of the Medical Officers and persuade them to lend a more hearty co-operation.

(c) Control of Epidemic Diseases.

Vaccination.—Government Order No. G. 9181-91—San. 7-27-107, dated 20th May 1932 directed that the District Vaccination Staff be placed under the control of the District Health Officers in Mysore and Shimoga Districts which have full-time Health Officers. This is desirable as the responsibility for the regulation and progress of vaccination in the Districts, as well as the disciplinary control over the vaccinators being vested entirely in the Presidents of Local Bodies, the department has no control over the work of the Vaccinators.

During the year under report 245,078 vaccinations were done as compared with 169,887 in the previous year giving an excess of 75,191 vaccinations. Of these 237,691 were done by the District Board and Municipal Vaccinators and 7,387 by medical subordinates. Detailed statistics of vaccinations done in each District and the computed

success rates are given in Table 9, both for primary and for re-vaccinations. Particulars of vaccinations done by the medical subordinates are given in Table 10.

An average number of 169 vaccinators was employed during the year doing 1,406 vaccinations per vaccinator

on the average against 944 in 1931.

In district board and municipal vaccinations the success rate in Mysore State was 83.37 in primary and 44.47 in re-vaccinations. In dispensary vaccinations the success rates were 84.85 and 36.55 respectively. The unknown cases in primary and re-vaccinations were 6.07 per cent and 5.06 per cent in the district board and municipal vaccinations and 7.10 per cent and 16.80 per cent in Dispensary vaccinations. These indicate that the success rate is not any the higher in vaccinations done by medical subordinates.

The cost of the vaccination establishment amounted to Rs. 72,888-4-3, the cost per vaccination being four annas and nine pies. The cost per successful vaccination was six

annas and ten pies.

Anti-plague Inoculations.—The prevalence of plague was more or less uniform in all the Districts a total of 7,232 deaths being reported. Anti-plague measures were employed in many of the infected localities the chief measure being anti-plague inoculation. As per reports 234,295 inoculations were done in Mysore State, the inoculated population being approximately 3.6 per cent. In other words out of every thousand of population 36 persons were inoculated during the year.

Statistics of inoculations in each month of the year

are given for each District in Table 12.

TABLE 9.

Dualisation of Filmary and Footsations actions	11110	א מוות דמר א	accination	- 1		D DIE COOL		The Course of	
		-ยุก	Nu	Number Vaccinated	pə	pako	ber	Primary V	Primary Vaccinations
District		Estimated Pop tion in 1932,	Total	Male	Female	Average No. of angle store search	Average Mo. Vaccinator	Total	Unknown
г		63	က	4	٣	9	r-	00	6
Bangalore	:	1,103,831	34,361	20,180	14,181	56	. 1,322	26,093	1,840
Chitaldrug	:	667,690	15,099	609'6	5,490	10	1,510	14,759	125
Hassan	:	598,689	17,937	10,510	7,427	21	854	16,161	1,043
Kadur	:	349,628	11,494	6,553	4,941	15	992	9,586	720
Kolar	:	856,690	55,739	29,012	26,727	28	1,990	20,665	619
Mysore	:	1,525,679	69,075	37,195	31,880	53	2,416	32,970	1,878
Shimoga	:	523,690	15,204	698'6	5,835	50	092	14,531	1,211
Tumkur		873,322	18,782	10,472	8,310	08	686	16,721	1,248
Total (Mysore State)*	*	6,499,218	237,691	132,900	104,791	169	1,406	151,106	9,174
Bangalore City	:	179,620	12,227	7,396	4,831	4	3,056	6,851	249
Mysore City	:	110,273	13,890	8,548	5,342	4	3,472	6,83 5	203
Kolar Gold Field	:	84,755	38,250	19,364	18,886	∞	4,781	4,386	:
C. & M. Station		136,162						Figures not	available.
			the first state of the second		And the second s				

* Excluding C. & M. Station, Bangalore.

TABLE 9—concld.

			Primary Vaccinations	cinations			Revac	Revaccinations		s cess-	
District	ų s		Successful	ssful						ong lo uoitani	r 1000
		Under one	Over 1 & under 6 years	Total of all ages	Success	Total	Unknown	Successful	Success	.oV IstoT coaV Int	Successful ed noit otherwise
		10	11	12	13	14	15	16	17	18	19
Bangalore		8,889	11,296	21,132	66.08	8,268	528	1,641	19.85	22,778	20.63
Chitaldrug		3,462	6,154	14,592	18.86	340	140	175	51.47	14,767	22.12
Hassan		2,373	8,557	11,830	73.20	1,776	321	310	17.45	12,140	20.58
Kadur	•	1,162	4,234	7,716	80.49	1,908	378	757	39.62	8,473	24.23
Kolar	:	7,447	8,738	17,409	84.24	35,074	1,302	17,409	49.64	34,818	40.64
Mysore		10,862	14,223	28,337	85.95	36,105	1,285	17,502	48.48	45,839	30.04
Shimoga		1,690	7,095	10,702	74.68	873	189	262	30.01	10,964	20.74
Tumkur		3,538	9,169	14,265	85.32	290,2	242	447	21.68	14,712	16.85
Total (Mysore State)*	*	39,423	69,465	125,983	83.37	86,585	4,380	38,503	44.47	164,486	25•31
Bangalore City		3,421	1,631	5,314	77.57	5,376	331	1,299	24.16	6,613	36.82
Mysore City	:	2,565	2,474	5,393	18.90	7,055	209	115	1.63	5,508	49.95
Kolar Gold Field	:	2,897	844	3,837	87.48	33,864	1,251	17,310	51.12	21,147	249.51
C. & M. Station	•	Figures not	available.								
						•					

* Excluding C. &. M. Station, Bangalore.

TABLE 10.

Statistics of Vaccinations done by Medical Subordinates in Mysore State in the year 1932.

Re-vaccination	[n]s	nissə	105 86 80 109 109 131 164	
Re-va	цмо	опяп	299 54 131 131	050
		Lsto'T		
	District Tries of the control of the			
ons		Name of the color of the colo		
ondary Vaccinations	District of the control of the contr	000		
Primary and Seco		Under one year	363 162 22.6 192 87 344 34 170	
Prir			17 58 76 57 89 162 27 48	
	1,058			
		IstoT	713 276 402 339 2,907 192 287 5,327	•
	Number N			
		Marie Mari		
	24 7,387 5,327 378 429 429			
	District		Bangalore Chitaldrug Hassan Kadur Kolar Mysore Shimoga Tumkur	

Cost of the Vaccination Establishment in Mysore State in the year 1932.

	1												
	Esta	Establishment	ment	42			Expenditure	diture			. Paid from	rom	
District	Δ	Vaccinators	ators		Pay of Establish		Travelling	Contin-	Total	Local Bunde	Munici-	Malnad Improve-	Total
	Total	H	11	III	ment	1	Allowances	gencies			pality	ment	
					Rs. a.	p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs a. p.	Rs. a. p.
Bangalore	97	9	9	14	7,360 0	0 (2,112 0 0	4,405 0 0	13,877 0 0	10,897 0 0	0 0 086.2	:	13,877 0 0
Chitaldrug	10	က	ಯ	4	2,940 0	0 (0 0 096	108 0 0	4,008 0 0	4,008 0 0	:	:	4,008 0 0
Hassan	21	4	9	H	5,946 4	**	1,563 5 4	2,646 9 3	10,156 2 11	7,784 2 5	906 1 6	1,465 15 0	10,156 2 11
Kadur	15	၁၁	C7	10	6,493 2	0	:	•	6,493 2 0	4,911 0 0	•	1,582 2 0	6,493 2 0
Kolar	28	:	:	:,	4,898 5	0	1,862 5 2	1,442 0 0	8,202 10 2	7,718 10 2	484 0 0	•	8,202 10 2
Mysore	29	9	co	15	10,391 0	9 (i	2,239 7 8	12,624 8 2	8,624 7 10	4,000 0 4	:	12,624 8 2
Shimoga	20	က၁	භ	14	4,414 5	0	1,862 5 2	1,442 0 0	7,718 10 2	7,718 10 2		:	7,718 10 2
Tumkur	20	5	20	10	5,585 8	8	1,665 4 10	2,557 5,4	9,808 2 10	9,808 2 10	:	:	9,808 2 10
Total (Mysore State)*	169	:	:	:	48,028 9	9	10,025 4 6	14,834 6 3	72,888 4 3	61,470 1 5	8,370 110	3,048 1 0	72,888 4 3
Bangalore City	4		-	C3	1,180 0	0	:	1,800 0 0	2,980 0 0	•	2,980 0 0	•	2,980 0 0
Mysore City	4	:	C1	C7	1,286 8	00	:	2,233 7 8	3,520 0 4	:	3,520 0 4	:	3,520 0 4
Kolar Gold Field	00	:	:	00	484 0	0	:	:	484 0 0	:	484 0 0	* *	484 0 0
C. & M Station.	:	:	:	0 0	:		:	•	:	:	-:	:	:
, in the second		1	3,	- -		1.							

*Excluding C. & M. Station, Bangalore.

TABLE 12.

	Stat	istics	of An	ıti-pla	gue in	oculat	Statistics of Anti-plague inoculations done	lone ii	in Mysore		State in	the year		1932.		
	Esti	Estimated		£λ	PA-Manual Assessment on the Agency			Ngan and the state of the state	Na. 40 Ampellinskip militarymen i		рег	ı)51.	өг.	Anti-plague inoculations	ague ions
District	ndod ui	population in 1932	January	Бергиал	Макећ	[ingA	VsN	эппС	Luc	4su&u A	Septemi	төботоО	Хочешь	Decemp	Number population	Rate per per cent popula- tion
Bangalore	1,10	1,103,831	12,832	7,876	2,606	1,193	066	1,023	3,043	6,762	7,655	6,329	5,345	2,430	58,011	5.55
Chitaldrug	66	667,690	431	634	172	495	48	13	169	2,728	5,601	4,846	4,405	7,017	26,479	1.74
Hassan	59	598,689	:	•	:	:	•	:	*	:	* * *	•	<i>d</i> 0 9	•	11,759	1.96
Kadur	34	349,628	1,226	955	632	592	210	955	360	2,667	2,784	1,097	1,712	1,146	14,336	4.10
Kolar	85(856,690	7,711	8,559	4,817	1,302	8 86	69	586	652	3,923	1,865	1,775	4,569	36,513	4.18
Mysore	1,528	1,525,679	1,735	2,006	1,431	2,380	1,287	2,971	3,333	8,310	21,808	4,250	3,508	2,541.	55,554	8.35
Shimoga	52	523,690	1,064	348	187	37	110	3 2 8	1,268	8,493	4,587	2,892	1,348	1,862	24,554	2.87
Tumkur	875	873,322	2,862	1,960	184	132	172	:	221	187	300	324	105	644	7,091	1.35
Total (Mysore State)		6,499,218	÷	:	;	÷	:	:		;			:	:	2,34,295	3.60
Bangalore City		179,620	1,966	2,998	795	203	:	16	1,026	1,616	855	2,931	1,968	1,413	15 784	8.79
Mysore City	110	110,278	242	189	:	30	18	:	273	3,766	13,620	2,349	724	449	21,390	19.40
Kolar Gold Field	8	84,755	3,438	1,537	1,749	332	184	63	88	88	2,935	1,479	954	3,620	16,417	19.37
C. and M. Station	•		• • •	:	igures	Figures not available.	able.	:	:	:	:	:	•	•	:	:
								-					•			

BUREAU OF LABORATORIES.

(a) Public Health Institute.

The work at the Institute is under three main sections, viz., Bacteriological, Chemical and Medico-legal.

In the Bacteriological section, 9,362 examinations were made during the year as against 12,305 in the previous year.

Table 1.

	Examinations		Posi- tive	Nega- tive	Total 1932
12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	Do Kahn's test Do Malarial Parasites Do Blood count Do Urea Sputum for Tuberculosis Do Pneumococci Smear for Gonococci Do Filaria Smear from rat for B. Pestis Brain of dog for rabies Motion for Ova Do Cholera Vibrios Do Dysentery bacilli Do Typhoid do Urine for B. Coli Smear for Lepra bacilli Pathological specimen for secutting. Preparation of Auto vaccine Water samples Throat smear for Diphtheria back Motion for Tubercle bacilli Smear from the ear	•••	2,800 143 2 15 12 1 23 3 1 15 3 4 3 11 2	3,573 271 1 57 52 64 12 7 43 7 16 	6,373 414 3 72 61 1 64 1 45 6 35 1 79 15 11 46 18 17 10 40 1,279 3 3 1 714 1 2 46 1
	Total	•••	• • •		9,362

A very large number of waters examined was received from the Sanitary Engineer, Rockefeller Foundation and the Health Department, Bangalore City. They were examined for the presence of enteric and cholera. No evidence of contamination was found.

Extra bacteriological work was carried out in con-

nection with the Typhoid epidemic in Bangalore City.

The Wassermann technique has been standardised and it is found that the complement titre has been maintained at a reasonable level throughout the year. Kolmer has recently pointed out that Ice-box complement fixation test is an efficient check on the routine technique carried out at 37-deg. C. The Ice-box test has been in vogue in the Institute for three years and it is found that the discrepancy between this and the routine test at 37-deg. C. varies only between 2 and $2\frac{1}{2}$ per cent, specially as regards the binding of the complement.

In the Typhoid survey carried out in Bangalore City, a very few positive isolations of B. Typhosus were obtained in spite of a rigid standardised technique employed. On the other hand, other bacteria of the "Salmonella" group of organisms were often isolated. Possibly other bacterial infections are also responsible in causing enteric type fevers. In cases where blood only was examined, a great number of positives for only enteric was noticed. Great care was taken in the maintenance of the virulence of typhoid group of organisms. It was noticed that 'Somatic' agglutination was by far the most commonly found in

widal reactions.

Preventive vaccines against typhoid, A and B group of organisms were prepared from strains isolated locally and supplied to the municipality at their request. As this work was attempted very recently, it is not possible to assess the protective value of the vaccines.

In the Chemical section 615 specimens were received for analysis chiefly from Government departments and a few from private persons as against 351 in the preceding

year:--

Number	Items	Number of specimens	From
1 2 3 4	Urine Waters Blood sugar estimation Tea	310 86 39 34	Government Do Do Do

Number	Items		Number of specimens	From
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	Wash Aerated waters Ghee Butter Coffee powder Toddy Blood Calcium Spirits Castor Oil Bread Quinine tablets Soap Disinfectant Pyridine Sulphate of Alumina Sweetmeats Brandy Woodnaphtha Grape fruit Rum Kolu Kalli Edible fat Muck Halva Sewage effluent Bengal gram Paris green Cooked ragi Milk powder Groundnut oil Opium		22 22 17 10 10 8 7 6 5 4 4 3 3 2 2 2 2 1 1 1 1 1 1 1 1	Government Do Do Do Do Do Do Do Do Covernment & Private Do
gaption and an analysis of the second	Total	• • •	615	

Disturbances in the use of Antigen due to acidified distilled water with a low $P_{\rm H}$ were very often noticed and it is found necessary to use perfectly neutral water for such reaction. This was observed to be more common during summer months.

Waters sprayed with Parisgreen were sent by the executive staff of Bangalore City Municipality for analysis. These were found to be free from arsenic, a finding which admits of no rational explanation as yet.

Chemical analyses of butter and ghee were done.

Eighty-six waters received from various Districts were examined chemically.

No.	Name	of the District		No. of Samples	Remarks
1	Mysore	•••	4	8	Sent by the Public.
2	Bangalore	•••	• • •	37	Works De- partment,
3	Kolar		• • •	3	Bureau of
4	Hassan	• •	***	3	Sanitary Engineering, Medical Department,
5	Shimoga	•••	• • •	14	and the
6	Tumkur	•••	• •	8	Local Bodies.
7	Kadur	•••	• •	5	
8	Chitaldrug	•••	• • •	8	
		Total	•••	86	

In the Medico Legal Section 196 cases with 663 articles were received for examination as compared with 198 cases with 852 articles in the preceding year.

No.	Items	Number of Cases	Number of Articles
2 3 4 5 6 7 8 5 6 7 8	Blood Suspected human poisoning Abortion Acid Rape Oil Ragi Explosives Hanging Total	82 84 10 1 14 1 2 1	266 311 42 1 33 1 1 4 4 4

In 42 cases mammalian blood, in 8 arsenic, in 3 mercury, in 1 opium, in 1 carbon-dioxide, in 1 croton oil, in 1 oleander, in 4 spermatozoa and in 2 formaldehyde were detected.

A greater number of poisons were detected than were before. One of the rare poisons used was "Formaldehyde". There are on record very few authentic cases of poisoning with Formaldehyde. The commonly used poison appears to be mercury.

As before, Bangalore and Mysore districts supplied

much of the medico-legal material.

Under other examinations, 3,866 faecal samples were received for Helminthic infection and the results are classified below:—

1.	No.	Positive	for	Hookworm	•••	1,707
2	No.	,,	, ,	Ascaris	A + #	828
3.	No.	, ,	"	Trichiuris	• • •	222
4.	No.			Others		69

Statement showing the money value of the work done at the Public Health Institute during the year 1932:—

No.	$I_{ m tems}$		No. of Samples	Rate	$\mathbf{A}\mathbf{mount}$	Total
	I. BACTERIOLOGICAL SECTION	on.		Rs.	Rs.	,
1	Wassermann reaction	•••	6,373	10	63,730	
2	Waters	• • •	1,279	10	12,790	
3	Preparation of Auto-vaccine		40	25	1,000	
4	Other specimens		1,670	3	5,010	
	II. CHEMICAL SECTION.					82,530
1	Waters		86	25	2,150	
2	Urine		310	3	930	
3	Blood sugar estimation	• • •	39	15	585	
.1	Blood calcium	• • •	7	10	70	
5	Other specimens	•••	173	25	4,325	
	III. MEDICO-LEGAL SECTIO	ON.				8,060
1	Medico-legal cases		196	25	4,900	
						4,900
	Total	•••				95,450

Statement according to districts of the blood samples examined for Wassermann of the Institute:—

Dist	rict	Positive	Negative	Total
Mysore Bangalore Kolar Hassan Shimoga Tumkur Kadur Chitaldrug		457 1,136 274 179 255 231 150 118	745 1, 2 50 273 185 356 390 200 174	1,202 2,386 547 364 611 621 350 292
Total for the	e State	 2,800	3,573	6,373

(b) Vaccine Institute.

As in previous years calves required for lymph production were supplied by an approved contractor. Twenty one calves remained at the close of the previous year, including four done calves. Four hundred and eight calves were purchased during the year under report making a total of 429 calves. Of these, 31 were buffalo-calves for production of "seed" lymph and the rest cow-calves for the production of issue lymph.

The gross cost of calves purchased during the year was Rs. 4,001-14-0 and the net cost after deducting the proceeds by sale of "done" calves Rs. 2,953-13-0 or an average of Rs. 7-3-10 per calf as against Rs. 9-5-10 during

the year previous.

Three hundred and seventy-six cow-calves and 31

buffalo-calves were vaccinated during the year.

Of the calves vaccinated 10 or 2.4 per cent had to be rejected owing to abnormal reaction. Quantity of pulp collected was 41,617 grains (including 11,322 grains used in manufacture of Glycerine lymph for "seed", experiments, etc.) equivalent to 416,170 cases. The average yield per calf vaccinated was 105 grains of pulp against 132 in the year previous. The fall in the average is rather difficult to explain and was probably due to the "calf" factor.

Two "waiting" cow-calves and one vaccinated cow-calf died. After the postmortem examination, the deaths

were declared to be due to-

Occlusion of the pyloric orifice ... 1 "Waiting Calf" Anæmia and Enteritis ... 1 "Waiting Calf" Anæmia and Debility ... 1 "Done Calf"

The usual precautions to prevent the possible spread of any communicable diseases amongst other calves in the stalls were taken.

The expenditure under feeding amounted to Rs. 723-8-0 or an average of Rs. 1-11-3 against Rs. 788-10-0 or an average of Rs. 2-2-10 per calf during the year previous. The fall was due to more satisfactory arrangements with the contractor to remove the done calves from the Institute immediately they were available. This resulted in some savings under feeding of calves.

The amount realised by the sale of done calves was Rs. 1,048-1-0 or an average of Rs. 2-9-0 per calf as against

Rs. 2-2-2 per calf during the year previous.

Lanoline vaccine continued to be issued during the year. The quantities issued as detailed in Table 2 were enough for 2,32,177 cases as against 2,00,565 cases during the year previous. Besides this, it was possible to issue only 17,400 cases of vaccine outside the State as against 46,920 cases in the previous year. There was no difficulty in meeting the full demand for vaccine at any time.

Table 2.

Particulars of issue of Lanoline lymph from the Vaccine Institute, Bangalore, during the year 1932.

District	Vaccinators or Medical Officer and Subordinates	S	1931	1932
Bangalore	Vaccinators	• • •	21,835	22,670
Marcono	Medical Officers and Subordinates Vaccinators		2,565	3,301
Mysore	Medical Officers and Subordinates	• •	$26,382 \ 2,142$	23,952 $4,130$
Kolar	Vaccinators	• • •	19,370	17,670
110101	Medical Officers and Subordinates		354	836
Tumkur	Vaccinators	• • •	21,080	20,733
	Medical Officers and Subordinates		461	596
Shimoga	Vaccinators		18,509	18,702
**	Medical Officers and Subordinates	• • •	495	817
Hassan	Vaccinators	•••	18,910	18,420
Kadur	Medical Officers and Subordinates Vaccinators	• • •	1,087	615
Madur	Vaccinators Medical Officers and Subordinates	* * *	13,056 837	$20,010 \\ 564$
Chitaldrug	Vaccinators	• • •	17,980	15,725
Ontolliandide	Medical Officers and Subordinates	•••	808	601
Health Officer.	Bangalore City	•••	9,020	11,260
Do	Mysore City	•••	11,975	14,375
$\mathbf{D}\mathbf{o}$	Rural Health Unit, Mandya		2,075	2, 5 50
\mathbf{D} o	Kolar Gold Field		10,430	33,430
Model Range	•••	• • •	1,193	1,220
	rn .			
	Tota	al	2,00,565	2,32,177
Outstations	•••	• • -	46,920	17,400
	Grand Total	al	2,47,485	2,49,577

Out of a total of 2,49,577 cases for which the lymph was issued, the results of 1,30,756 primary cases or about 52 per cent of total issues have been reported to the Institute against 56 per cent during the year previous. It is hoped that local bodies will see that their vaccination staff do send in the returns to the Institute promptly and regularly. There is no reason why cent per cent returns should not be furnished.

The average percentage of successful primary vaccinations reported between January and June was 86 percent and that between July and December 94 percent. The average for the whole year was 90 percent against 85 percent for the year previous.

Table 3.

Analysis of percentage of successful primary cases of vaccinations by months during the several years.

Months		1932	1931	1930	1929	1928	1927	1926	1925	1924	1923
January February March April May June		90 87 86 81 85 88	89 85 78 79 76 80	86 86 91 89 93 93	82 80 65 74 81 87	82 79 73 76 81 77	92 83 47 48 71 81	92 90 87 88 90 87	93 92 87 82 88 91	93 92 63 75 90 85	93 9 3 86 86 90
July August September October November December		92 95 95 93 94 93	89 86 91 89 92 92	890/0 81 88 86 84 80 87 84.3%	780/0 83 93 95 94 91 93 91.5%	780/0 83 83 77 81 75 85 80.6%	71 84 83 84 86 84	890/0 89 98 92 93 92 93 92.5%	92 94 94 92 92 91 	830/0 92 89 85 92 85 94 90%	93 92 93 90 87 94
Yearly genera average	* * *	90%	8 5 0/0	870/0	850/o	790/0	760/0	91o/o	910/0	8 60/0	900/0

Results classified according to months for the past 10 years (1923 to 1932) are tabulated in Table 3. Those classified according to districts and months, for the whole year are furnished in Table 5. Reporting, however, is obviously too defective and no useful comment or inference as to seasonal and geographical variations of results is possible.

TABLE 4.

Districtwar classification of results of Primary Vaccination reported to the Vaccine Institute.

				January to June 1932	1932				July to December 1932	1932	
Districts	cts	Total No. of cases vaccinated	Successful	Unsuccess-ful	Unknown	Percentage	Total No. of cases vaccinated	Successful	Unsuccess-ful	Unknown	Percentage
Bangalore		8,371	6,403	1,225	743	84	8,847	7,720	477	650	₹.
Mysore	:	13,968	11,931	1,332	705	06	11,840	10,810	802	322	86
Kolar	:	096'9	5,868	742	950	68	6,774	6,230	307	237	95
Tumkur		8,354	6,785	914	655	88	7,820	7,010	316	494	96
Shimoga	:	2,900	4,523	887	490	84	6,242	5,517	466	259	36
Hassan	:	7,854	6,811	196	929	18	6,767	5,834	969	337	91
Kadur	:	3,859	2,923	605	334	85	3,412	2,956	281	175	91
Chitaldrug	:	5,994	4,829	862	367	98	4,925	4,497	248	180	95
	-										
Model Range, V	accinator	464	456	27	11	94	543	525	o	σ.	86
Rural Health Ur	nit, Mandya	1,751	1,422	526	20	84	1,955	1,757	1355	65	93
Stations outside	e the State.		Average for the whole State 86% (For the whole year, January to	e State 86% January to	December).	98	Average for 1 8,056	for the whole State 7,258	e State . 628	170	94

Percentage success of Primary Vaccinations classified by districts monthwar during 1932.

TABLE 5.

) 022										
District	January	February	March	April	May	June .	July	August	September	October	November	December
Bangalore	88 92	84	85 90	76 89	87 89	82 90	90 92	9 5 96	97 93	9 2 92	95	93 96
Mysore Kolar	93	89	86	83	90	92	92	97	96	95	96	96
Tumkur Shimoga	94 87	88 80	8 5	82 78	91 83	89 88	95 92	97 93	97 94	93 92	96	93
Hassan Kadur	86 84	86 83	87 81	86 83	87 82	86 84	89 90	90 92	93 93	92 90	92	89 92
Chitaldrug	93	8 9	88	7 3	74	89	90	96	97 	94	95	97
Total (Mysore State).	90	87	86	81	85	88	92	95	95	98	94	93

Reports of the vaccinal state of only 163 attacks of smallpox during the year are available. These are shown in Table 6. The vaccinal state of 1,840 cases known in Mysore State is analysed in Table 7. The protection which vaccination affords amongst all ages against death from smallpox in our State is quite obvious.

Table 6.

Analysis of the vaccinal state of 163 cases of smallpox reported from the State in 1932.

				Age	0-5					Age o	 ver 5		Makasan managan
Districts		7	accina	ated	Uı	rvaccii	nated	V	accina	ted	Ur	ivaccii	nated
		Attacks	Deaths	Fatality per cent	Attacks	Deaths	Fatality per cent	Attacks	Deaths	Fatality per cent	Attacks	Deaths	Fatality per cent
Bangalore Mysore Kolar	•••	1 2	1	• • •	4 6 4	4 4 3	•••	49 18 3 2	5		22 11 14	7 4 4	•••
Total	•••	3	+ 1	33 ·3	14	11	78.6	99	6	6	47	15	32

TABLE 7.

Analysis of the vaccinal state of 1,840 smallpox cases recorded in Mysore State available up to date.

		Age	e 0- 5					Age	over 5		
V	accina	ted	Un	vaccin	ated	V	accinat	ed	U.	nvacci	nated
Attacks	Deaths	Fatality	Attacks	Deaths	Fatality	Attacks	Deaths	Fatality	Attacks	Deaths	Fatality
		Percent			Percent			Percent			Percent
72	12	17	1177	642	55	233	26	11	368	120	33

The advantage possessed by the vaccinated over the unvaccinated as regards the liability to suffer from a severe type of the disease is obvious from a perusal of the above analysis. Incidentally also it furnishes some evidence regarding the efficacy of our paste which had been used for protection of the vaccinated.

Table 8.

Complications and Sequelae reported in 1932.

		cases		Age		Com	plicati	ons	Pe	riod
District		Number of	Infant under 1	1-5	Over 5	Ulcers	Abcess	Erruptions	lsi week	2nd week
Kolar Gold Field	• • •	2		2			2		•••	2

The period of occurrence of the complications in the two cases during the second week after vaccination is significant of injury to vesicles due to want of sufficient care in handling the vaccinated. The vaccinators should draw attention to this risk during their visits.

Table 9. Complications and Sequelae from 1929 to 1932.

	1									,	
				A	ge		Con	nplicat	ions	Per	iod
Year	District	No. of Cases	Infant under 1	1-5	Over 5	Ulcers	Abscess	Erruptions	1st week	2nd week	3rd week
1929	Baugalore Kolar Chitaldrug Tumkur Mysore	. 12 . 1	1 4 2 4	1 8 1 3 4		1 11 1 5	1 1	6	3	2 9 1 5 8	
1930	Bangalore Kolar Chitaldrug Tumkur	. 4	3		•••	1 4			•••	1 4 1	1
1931	Shimoga	. 4	3	1	•••	2	1	1	• • •	1	3
1932	Kolar Gold Field.	2	•••	2	•••	•••	2	• • •	•••	2	•••
	Total	. 41	17	$\left[egin{array}{c} 24 \end{array} ight]$	* * *	25	5	11	3	34	4

From a detailed study made of the reports of all these cases, it is seen they were all due to sepsis either during vaccination or subsequent injury to vesicles from scratching, etc. Greater care during vaccination and paring the nails of children before vaccination and at the time of inspection will prevent this complication.

TABLE 10.

Statement showing the number of kit-boxes supplied during the year 1932.

No.	Name of Parties	be	mber of oxes
1.	The Health Officer, Mysore City		4
2.	The President, Municipal Council, Krishnarajpet		1
3.	Do do Kolar Town		1
4.	The President, District Board, Kolar District		10
5.	The President, Municipal Council, Kunigal		1
6.	The Health Officer, Mudigere, (Malaria Station)	6 et 18	2
7.	The President, Municipal Council, Gubbi		1
			N-www.tim
	Total	• • \	20

The Superintendent, Vaccine Institute, continued to supervise the vaccinations in the Model Range to test the several strains of lymph produced in the Institute. This range consists of about 111 villages within a radius of about 16 miles of Bangalore. The total number of primary vaccinations done in the Range during the year was 1,007. Ninety-six per cent of these proved successful (Table 4.)

During the year 20 vaccinators were equipped with the new type of kit-boxes on payment by their respective local bodies (Table. 10). This brings up the total number of vaccinators thus equipped to 41 in the State. It is hoped that others also will be equipped early.

Reports of only two instances from Kolar Gold Field of complications and sequelae following vaccination were made to the Institute. Death in one instance and protracted convalescence in the other were stated to have resulted. Both were traced on investigation to have followed uncleanly vaccination by the same vaccinator. The defaulting vaccinator was removed from service. Particulars are analysed in Table 8. The "domiciliary" type of vaccination does not, under the existing field conditions, permit of satisfactory practice of requisite degree of asepsis in vaccination by the vaccinator. It is hoped that whenever conditions permit "stationary" vaccination, in which all the children to be vaccinated are made to congregate in a place, will be adopted. This is calculated to facilitate, to a greater degree, aseptic vaccination, and prevent or at least minimise, chances of complications.

The following statement shows the Income and Expenditure for 1932 as compared with the previous year.—

Items	1931	1932
INCOME.	Rs. a. p.	Rs. a. p.
Sale of vaccinated calves Sale of Lymph.—	723 12 0	1,048 1 0
Within the State (on account of fixed annual contribution for 1932-33) Rs. 15,540; For actual supplies up to 31st December 1932 to the rest Rs. 2,777-2-0.	14,851 13 8	18,317 2 0

Items	1931		198	32	
Out Stations	4,698 14	0	1,748	14	0
Amount outstanding at the close of the year for supplies during the year. (on account of fixed annual contribution for 1932-33) Rs. 1,904; for actual supplies up to 31st December 1932 to the rest Rs. 1,810-8-0.	4,853 0	0	3,714	8	0,
Total	25,127 7	8	24,828	9	0
EXPENDITURE.	Signit code concepting Commissional Commissi				
Salaries	4,894 0	0	4,806	0	0
Travelling Allowance to Officers	264 12	0	138	12	0
Establishment	6,554 4	0	5,996	1	0
Cost of calves and experimental	3,804 10	0	4,001	14	0
animals. Cost of feeding	788 11	0	723	8	0
Contingencies—Usual Rs. 3,129-6-6, Unusual Rs. 6,000, (for acquisition of new land effected in April 1932.)	4,267 4	О	9,129	6	6
Total	20,573 9	0	24,795	9	0

The following local bodies have availed themselves of the option given by G. O. No. G. 4755—P. H. 32-31-3, dated 12th December 1931, of not accepting the fixed annual contribution as per G. O. No. G. 9466-87—San. 84-29-7, dated 12th March 1931 but agreeing to pay as and when lymph is issued.—

- 1. President, District Board, Kadur.
- 2. , , , Hassan.
- 3. , Municipal Council, Hassan.
- 4. ,, City Municipality, Mysore.

A statement of progress in demand and collection for the several years subsequent to issue of Government Order No. L. 5137-210—Sany. 1925-2, dated 18th January 1926 is detailed in Table 11. It is possible that in some cases dues might have been credited to the treasury but no intimation of the same has been received in the Institute. Some items might have been shown as outstandings owing to credit not having been given in the books for want of sufficient information to identify the amounts. Even the monthly departmental credit statements sent from the comptroller are often returned unverified on this account.

Outstandings to the extent of Rs. 25,085-5-8 as per books of this office remain yet unadjusted by the several local bodies. Of this, a sum of Rs. 3,714-8-0 is due for supplies during the current year and Rs. 21,370-13-8 for

previous years.

TABLE 11.

Progress of Collections against Demands for Supplies of Lymph in the years 1925-32.

of the principle of the post o	Balance	Total	Rs. a. p. 31,466 3 2 39,163 2 7 41,159 0 11 41,092 15 5 28,976 4 0 29,786 1 8 25,085 5 8
		Towards	Rs. a. p. 20,043 5 7 30,047 3 2 34,097 12 3 23,810 9 5 21,738 15 8 21,289 5 4 21,524 12 4 21,370 13 8
		Towards	Rs. a. p. 11,422 18 7 9,115 15 5 7,061 4 8 7,282 6 0 7,287 4 4 8,456 12 4 4,853 0 0 8,714 8 0
		Total	Rs. a. p. 12,491 0 2 9,521 11 9 15,722 9 8 24,271 10 6 35,024 3 4 23,509 8 6 27,812 1 0 25,072 14 8
T I	Collections	Towards	Rs. a. p. 8,918 6 10 8,102 11 9 10,657 3 4 16,923 3 0 15,670 3 7 15,822 9 10 19,550 11 8 20,066 0 0
		Towards	Rs. a. p. 3,572 9 4 1,419 0 0 5,065 6 4 7,348 7 6 19,353 15 9 7,686 14 8 8,261 5 4 5,006 11 8
	Outstanding demands	Total	Rs. a. p. 43,957 3 4 48,684 14 4 56,881 10 7 65,364 9 11 64,000 7 4 53,295 10 2 54,189 13 4 50,158 4 4
		Current year's due	Rs. a. p. 20,341 4 5 17,218 11 2 17,718 8 0 24,205 9 0 22,907 7 11 24,319 6 2 23,780 8 0
		Arrears due	Rs. a. p. 23,615 14 11 31,466 3 2 7 41,159 0 11 41,092 15 5 28,976 4 0 29,786 1 8 26,877 12 4
Year			:::::::
1925 1926 1926 1928 1929 1930 1931			

The outstanding for the previous years has resulted from accumulation of unadjusted outstandings since 1921 when the taluk boards were in existence. Their abolition and subsequent non-acceptance of their full liabilities by the district boards accounts for the heavy outstandings. The matter is under detailed investigation.

No difficulty is anticipated in the adjustment of out-

standings for current supplies.

The cost of lymph issued during the year works out to be Rs. 0-1-8 per case against Rs. 0-1-6 per case during the year previous. The slight increase is due to the inclusion of Rs. 6,000, an unusual item, incurred during the year, for making payment for certain land acquired for the Institute's premises in April 1932. Excluding the unusual item, the cost per case issued works out Re. 0-1-3 per case against Re. 0-1-6 during the year previous indicating cheaper cost of production of the issued lymph.

Ten candidates for qualifying in vaccination were trained and nine were granted certificates during the year. Besides 17 pupil compounders and two midwives were

also given the training.

The usual course of demonstration in vaccination for the final M. B. S. and L. M. P. of the Mysore Univer-

sity was also held during the year.

During the year, 99 lanoline samples were plate cultured 113 times to ensure their freedom from pathogenic organisms at the time of issue. Besides this, 104 glycerine samples were examined 364 times to study the several problems incidental to issue of such a lymph from the Institute.

Lanoline lymph enough for 14,647 cases had to be rejected for defective potency resulting from storage

incidental to its issue on rotation as per demand.

Anti-cholera vaccine was stored and distributed this year also by this Institute. Out of 5,590 doses stocked, 2,080 doses were issued out and i20 doses (all time expired) were written off the accounts as per Government Order No. 8138—9. P. H. 72-31-3, dated 13th April 1932, leaving a balance of 2,790 doses on 1st January 1933.

Out of 183 doses of bilivaccine tablets on hand no issues were made during the year under report as there

was no demand for the same.

The value of the cholera vaccines distributed during the year amounted to Rs. 155-6-0. Out of this, a sum of Rs. 108-2-0 was adjusted and Rs. 47-4-0 remained

unadjusted. Besides this, an amount of Rs. 2,095-10-0 remained unadjusted up to 31st December 1932 for supplies made during 1931, making a total of Rs. 2,142-14-0

as shown in table 12.

Plague serum bulbs and agar tubes were also made available in this Institute for distribution, 120 of the former and 58 of the latter being stocked. Fifty-four plague serum bulbs and 12 agar tubes were issued during the year under report. The rest of the agar tubes having become contaminated were discarded. This leaves a balance of 65 plague serum bulbs on hand on 1st January 1933.

Observations and experiments detailed in previous years' reports incidental to evolution of our local standards of potency and purity were continued. Results noted under different heads are recorded in tables [13 (a)—13 (h)].

Steady increase in the initial potency of our lymph may be observed to have been maintained during the

year.

Works to meet some of the most urgent wants of the Institute were under execution by the Department of Public Works at the close of the year. They were completed and handed over to the Department of Health only on 2nd February 1933. As by that time the cold weather, the most favourable season for production of vaccine lymph had passed, no material progress was possible towards the solution of the question of replacement of lanoline lymph by glycerine lymph. It is hoped that some definite advance in this direction will be made during 1933.

TABLE 14.—Summarises the more important facts regarding the work of the Institute during the year as

compared with that of the year previous.

The stock-books of this Institute have been as per standing orders brought up-to-date, duly verified and found correct during the year.

Table 12.

Statement showing the amount due from the several Local Bodies for Anti-cholera vaccine supplied up to 31st December 1932.

Districts		Name of Parties	Amount due up to 31st December 1931			Amount d up to 31s Decembe 1932	Total amount due up to 31st December 1932			
Bangalore		President, District Board,	1,146	12	0			*1,146	12	0
1)0		Bangalore. Municipal Commissioner, Bangalore City Munici-	567	3	0	31 4	0	598	7	0
Mysore		pality. President, District Board, Mysore.	182	11	0	16 0	0	148	11	0
Chitaldrug		President, District Board, Chitaldrug.	39	7	0			39	7	0
Hassan		President, District Board,	156	12	0			156	12	0
Shimoga		Hassan. President, District Board,	52	13	0	•••		52	13	0
		Shimoga. Total	2,095	10	0	47 4	0	2,142	14	0

^{*}Adjusted subsequent to 31st December 1932. Vide Comptroller's letter No. B 11-491 D—27-4-33, to the Director of Health in Mysore.

Table 13 (a).

The Vesicular Rates resulting from vaccination of the several strains in different dilutions.

Quarter	Years	1 in 50	1 in 100	1 in 500	1 in 1,000	No. of observations
January to March	1929	3.6	3.1	1.3	, 1'1	*
J 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1930	4.7	3.9	2.4	1.4	40
	1931	4.8	3.7	2.4	2.5	24
	1932	4.9	4.7	4.1	3.5	29
April to June	1929	3.1	2°5	1.2	0.8	>;<
	1930	4.4	3,8	3.0	2.5	30
	1931	4.9	3.8	2.9	1.7	23
	1932	4.8	4.4	3.6	3 2	22
July to September	1929	4 1	3.5	1.6	1.5	*
	1930	4.3	3.1	2.7	2.6	23
	1931	4.9	4.9	3.8	2.8	24
	1932	4.9	4.6	4.3	3.3	26
October to December	1929	4.9	4.5	2.7	1.8	n n
	1930	4.9	4.6	3.4	2.6	24
	1931	4 9	4.7	3.8	3.3	18
	1932	4.7	4 3	3.6	2.6	23
Average	1929	3.3	3.3	1.7	1.5	190
٠	1930	4'5	3.8	2.8	2.5	117
	1931	4.8	4.2	3.2	2.5	89
4 T2 / A = 000	1932	4.7	4'3	3.8	3.1	100

^{*} Data for 1929 not available quarter by quarter.

Table 13 (b).

Average yield in grains per inch of insertion.

Quarter		year	Yield	No. of observations
January to March	• •	1929 1930 1931	0°9 1°3 1°5	* 91 77
April to June	• •	1932 1929 1930 1931	0.9 0.8 1.1 1.0	99 * 85 72
July to September		1932 1929 1930 1931	1.0 1.0 1.1 1.0	83 * 80 82
October to December	. •	1932 1929 1930	0°9 1°4 1°2	95 * 67
Average	• •	1931 1932 1929 1930	1.0 1.1 1.0 1.2	63 91 378 323
		1931 1932	1.2 1.0	304 368

^{*} Data for 1929 not available quarter by quarter.

Table 13 (c).

The Potency Unit of the several Pastes.

Quarter		1929	1930	1931	1932		
January to March April to June July to September October to December	• • •	3.0 2.3 3.1 3.7	3°6 3°3 3°4 3°7	3.8 3.6 3.6 3.8	4.0 3.6 3.6 4.0		
Average for the year	• •	3.0	3.2	3.7	.3'8		

N.B.—A note on unit employed:--

Over an area of about $\frac{1}{4}$ " by $\frac{1}{4}$ " 4 linear incisions each about $\frac{1}{4}$ " long are made on the prepared skin of a calf. For each sample, 4 such insertions are made. If the resulting vesiculation was one continuous patch over the whole area, it was graded 4.

If at least two such lines coalesced and discrete vesicles were present in the other two, it was graded 3.

If at least discrete vesicles resulted along the four line, it was graded 2.

If at least one discrete vesicle resulted along one line, it was

graded 1.

The arithmetical averages of the values of the four individual insertions was the value given to the reaction in the experiment. The "Calf Factor" was eliminated as far as possible by taking the values of reaction in several calves and calculating the average. The personal factor was minimised by the same observer making the experiments and reading the result of the whole series.

Table 13 (d).

Average period of preservation in days after production of seed-lymph prior to vaccination of calves.

Quarter		1929	1930	1931	1932
January to March		16	18	7	7
April to June	a r a	9	13	6	8
July to September	• • •	6	17	5	7
October to December	~···	10	13	6	10
Avous do fou the man		10	15	C	0
Average for the year	* * *	10	15	6	8

Table 13 (e).

Average period of preservation in days of the lymph produced prior to issue.

Quarter		1929	1930	1931	1932
January to March	• • •	12	15	20	17
April to June	• • •	16	24	23	16
July to September	• • •	17	18	23	12
October to December	• • •	17	19	21	15
Average for the year	• •	16	19	21	15

Table 13 (f).

Average period in days of stabling the calves in the Institute prior to vaccination.

Quarter		1929	1930	1931	1932
January to March April to June July to September October to December	• • •	9 8 8 6	8 10 9	11 11 9 10	14 13 10 14
Average for the year	• • •	8	9	10	12

Table 13 (g).

Average reported field result of the several pastes issued out from the Institute.

Quarter	ag fallatilisk sigen menskapmeneraleksen.	1929	1930	1931	1932
January to March April to June July to September October to December Average for the year	•••	Per cent 75.5 80.3 90.5 92.1	Per cent 88 92 85 84 87	Per cent 84 78 89 91 85	Per cent 87.6 84.6 94 93.3

Table 13 (h).

Record of observations noted relating to the several possible factors influencing quality of Vaccine Lymph.

Field result reported of the several pastes issued out	from the Institute	Per cent 85.0 87.0 85.0 90.0
	prior to issue	16 19 15
	1 in 1,000	1.2 2.2 2.6
Average vesicular rate	1 in 500	25.8
Average ve	1 in 100	80 80 44 44 60 60 60 60 60 60 60 60 60 60 60 60 60
	1 in 50	6.6. 6.4. 7.4. 7.4.
Average potency unit of the several	pastes	89.4 89.4 89.4 89.4
Average yield per inch of in-	sertion	1.5
Average period of preservation in days of in days after stabling the production of seed lymph	prior to vaccina-	100 80 80
Average period in days of stabling the calves in the	Institute prior to vaccination	8 9 10 12
Year		: : :
		1929 1930 1931 1932

TABLE 14.

Some of the more important facts regarding the work of the Institute as compared with the previous year.

No	Particulars	1931	1932
			,
		NI 99	NI OI
$\frac{1}{2}$	Calves remaining	No. 33	No. 21
2 3	Calves purchased	, 309	,. 377 91
4	Buffalo calves Number of calves that died	$\begin{array}{ccc} & & & 20 \\ & & & 2 \end{array}$,, 3 1 ., 3
5	NT 1 C (T) 2 1	990	100
$\frac{3}{6}$	Number of Done calves Number of calves remaining on	or	17
U	1st January 33.	,, 21	,, <u> </u>
7	Gross cost	Rs.3,804 10 0	4,001 14 0
8	Net cost	,, 3,080 14 0	2,953 13 0
9	Average cost of calves	,, 9 5 10	7 3 10
10	Calves vaccinated	No. 315	No. 376
11	Buffalo calves vaccinated	,, 19	,, . 31
12	Calves rejected	,, 11	,, 10
4.0	T	(or 3.3%)	(or 2.4%)
13	Lymph produced	42,673 grs.	41,617 grs.
14	Lymph preserved for stock	15,178 grs.	11,322 grs.
15	Average yield per calf	132 grs.	105 grs.
16 17	Cost of feeding calves	Rs. 788 10 0	723 8 0
18	Cost of feeding per calf Sale of calves	$\frac{.2}{702}$ $\frac{2}{10}$	1 11 3
19	Average cale price per calf	,, 723 12 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{10}{20}$	T	,, 2 2 2 2 2 2 2,47,485 grs.	2,49,577 grs.
21	Lymph issued outside Mysore	10000	7 7 400
	State.	46,920 ,,	17,400 ,,
22	Issue in May and June (Hot	Not Curtailed	Not Curtailed
	Weather).	4	
23	Results of primary vaccination	56 per cent of	52 per cent of
0.4	reported.	cases	cases.
24	Average percentage success	86%	90%
25	reported.		NT C
40	Complication, and Sequelae reported.	No. 4	No. 2
26	Number of new kit boxes issued	01	0.1
	to vaccinators.	,, 21	,, 21
27	Cost of lymph issued per case	17 pies.	15 pies
28	Candidates trained in Vaccina-	No. 9	No. 10
	tion.		
29	Number granted certificates	,, 6	,, 9
30	Pupil Compounders trained	,, 7	,, 17
31	Midwives trained in vaccina-	Nil	,, 2
32	tion.		
34	Sanitary Inspectors	,, 1	Nil
k	*		

BUREAU OF HEALTH EDUCATION.

Since the reorganisation of the Bureau of Health Education under Government Order No. G. 4647-9-P. H. 16-31-6 dated 7—9th December 1931, the secretariat work of the Indian Red Cross Society, Mysore State Branch, was taken over by the bureau with the Director

of Health as the Honorary Secretary.

In pursuance of Government Order No. G. 8617-19— P.H. 69-31-6 dated 30th April 1932, the Bureau of Health Education was placed in charge of Mr. E. Anantha Rao, B.Sc., M.B.B.S., Health Probationer under the general control and direction of the Director of Health. designated Superintendent of the Bureau.

During the year under report, 162 cinema shows were

given to a total audience of about 1,24,485 persons.

During his intinerary in the districts, the Publicity Officer visited primary boys' and girls' schools and a few middle schools and gave health talks to the teachers and

pupils.

The officers of the bureau actively co-operated in the State-wide Health and Baby Week celebrations. For this purpose, in addition to the films already with the department, special films relating to mothercraft were hired from Madras and Delhi. The department organised a health exhibition in connection with the second State Conference of the Primary and Middle School teachers in Bangalore.

During the year, 22 articles on the following subjects were published in the local Kannada and English news-

papers:-

Borehole Sanitary Latrines 6. Plague

Rural Sanitation

Smallpox

4. Mothercraft 5. Tuberculosis

Soil Pollution 7. 8. Typhoid Fever

General Health Subjects. 9.

A leaflet entitled "Smallpox in Mysore" was published at the Government Press, Bangalore, in five languages for free distribution in the State.

The bureau printed leaflets and pictorial posters on Smallpox, Plague, Soil Pollution and Borehole Latrines in large numbers in Kannada, Urdu and English. They are being distributed free all over the State through the agency of the revenue and educational authorities, district boards, village panchayets and municipalities. A consignment of

leaflets was sent to the District Educational Officers for distribution in the primary and middle schools. Two thousand Kannada leaflets on Smallpox, Plague, Soil pollution and Borehole latrine were distributed among the visitors to the Health Stall at the Educational Health Exhibition Buildings, Bangalore.

A set of posters and leaflets was supplied to the Rural Reconstruction Society, Agricultural School,

Hebbal, for health propaganda in the rural area.

The motor van which is now over three years old has become greatly depreciated, needing frequent repairs. The question of purchasing a new vehicle was considered but owing to financial stringency, it was deferred.

BUREAU OF SANITARY ENGINEERING.

The Bureau of Sanitary Engineering of the Department of Public Health, Mysore State, had as its major activities in 1932, problems relating to public water supplies, public sewage, drainage and sanitary works, town improvements, construction of borehole latrines and

composting of night soil and town refuse.

The activities of the Bureau of Sanitary Engineering were increased during the year 1932 by Government Order No. G. 7496-519—P. H. 69-31-5, dated 19th March 1932 which authorised that the entire control of water supplies in the State be vested in the Bureau of Sanitary Engineering except the Bangalore Water Supply which will remain under the Chief Engineer until all major works in connection with the improvement to the Bangalore Water Supply are completed.

The maintenance and operation of the Vani Vilas Water Works at Mysore, the Kolar Gold Field Water Works at Bethamangala and the Shimoga Water Works at Shimoga were taken over by the Bureau of Sanitary Engineering with the addition of the following staff trans-

ferred from the Water Supply Division: -

• • •	• • •	1
	• • •	1
e e 'e		2
•••	** 4	5
• •		1
•••		5
***		3
		1
	•••	

Chief Operator	• • •		1
Electric Operator	* • •	• • •	1
Assistant Operators		• • •	2
Tank Inspector	* • •		1
Meter Inspectors	• • •	• • •	2
Water Inspectors	•••	• • •	4
Sub-Assistant Surgeon		• • •	1
Sanitary Inspector	t * •		1
Assistant Draftsman	(4 4	• • •	1
Clerks	•••	• • /	6
Accounts Clerks	• • •	• • •	3
Compounder	•••	• • •	1
Midwife	• • •	• • •	1
Surgery cooly	• • •	• • •	1
Peons	* 4 4	• • •	4
Maistry		• • •	1
Sweepers	• • •	• • •	4

Government also directed that the work of sinking boreholes for drinking water supplies should be done by the well boring staff attached to the Department of Industries and Commerce in strict accordance with the instructions issued by the Bureau of Sanitary Eugineering with whom all initiative in the matter will lie.

Government further directed that all grants for Public Improvements under the following heads will be operated

upon under the orders of the Sanitary Engineer.

1. Improvement of Water Supply in towns.

2. Improvements of towns and minor municipalities.

3. Rural reconstruction.

4. Drinking water wells in villages.

Item No. 3 above relating to the grant for Rural Reconstruction was subsequently ordered to remain with the Revenue Commissioner as hitherto while item No. 4 Drinking water wells in villages was ordered to be distributed among the several Districts by Government.

The following table shows the personnel of the Bureau

of Sanitary Engineering at the close of the year.

Executive Engineer			1*
S S S S S S S S S S S S S S S S S S S	• • •	• • •	2**
Assistant Engineers	***		3**
Eub-Engineers		• • •	2
Overseers			2
Sub-Overseers			1 5
Head Driver		• • •	1
Drivers	• • •	• • •	5
Assistant Drivers	• • •	• • •	3
Apprentice Driver		• • •	1
Chief Operator	• • •	• • •	1
Electric Operator	• • 3	,	1

Assistant Operators			2
Tank Inspector	• • •	• • •	1
Meter Inspectors	• • •	• • •	2
Water Inspectors	1 + 4	• (0.0	4
Sub-Assistant Surgeon		• • •	1
Sanitary Inspector			1
Draftsmen	* • • •	• • •	3
Assistant Draftsmen			1
Head Clerk		• • •	1
Clerks	• • •		9
Accountant			1
Accounts Clerks	• • • •	• • •	4
Stenographer	• • •	• • •	1
Chauffeur	0 0 3	,	.1
Tracer	•••	• • •	1
Chemist		• • •	1
Compounder	• • •	* * 0	1
Midwife	•••	0.70	1
Surgery Cooly	0 4 0	000	1
Peons	• • •	***	16
Maistry	0 0 0	0 • •	1
Sweepers	• • •	• • •	4
Mechanic	• • •	• • •	1

* Mr. B. R. Garudachar, Executive Sanitary Engineer, returned from a year's deputation to the United States and resumed his duties in May 1932.

The Executive Engineer of the Water-Supply Division acting as Executive Sanitary Engineer was reverted

to the Department of Public Works.

** Mr. K. S. Hutcha Rao, Assistant Sanitary Engineer, left for the United States in September 1932 for a period of one year on a Fellowship for the study and investigation of modern methods employed in Water-

Supplies.

At the close of the year 1931, there were 25 piped water supplies in the State serving a population of 6,78,893 or 10.4 per cent of the total population of the State. During the year 1932, four new water works were installed serving an additional population of 13,098. Two existing water-supplies were improved and their capacities enlarged. Nine existing water-supplies were equipped with chlorinators resulting in an additional 86,335 people being benefited by safer drinking water.

New designs and estimates were prepared for 20 water-supply systems. Sixteen of these are from borewells, two from infiltration wells, one from an impounded reservoir and one an extension from an existing water-supply. The original estimates and designs of nine

proposed water-supplies were investigated and the designs modified and the estimates reduced. Designs and estimates were prepared for improvements and extensions to

11 existing water-supply systems.

The collection of samples from drinking water-supplies was continued by the Bureau of Sanitary Engineering. One thousand, four hundred and ninety-seven samples of water were collected from piped Municipal water-supplies, Rural water-supplies and dug wells, step wells and tanks.

Plans and estimates were prepared for improvements to four drainage systems, ten designs and estimates for sewage systems and 19 designs and estimates for improve-

ments to existing sanitary works.

Town Survey Work was undertaken at 13 Municipalities for the investigation and design of town improvements.

A section of borehole latrine construction was organized with an Assistant Engineer in charge. hundred and-fifty borehole latrines were excavated and squatting slabs and enclosures completed during the year.

The Bureau of Sanitary Engineering continued to assist in the composting of night soil and refuse at Mysore

City.

WATER-SUPPLY

Design and Execution.

Rajankunte.—Plans and estimates were prepared for using the yield from a borewell sunk by the Industries Department. The project was designed so as to provide drinking water to the large number of people congregating on shandy days.

Arasikere.—The work in connection with the distribution system and extensions to the distribution system

was completed.

Pavagada.—A hand pump was installed on a borewell sunk by the Department of Industries and Commerce.

Improvements and Extensions.

Kolar.—The final execution work in connection with the improvements to Kolar Water Works were completed and the water works officially opened by the Dewan Amin-ul-Mulk Sir Mirza M. Ismail, Kr., C.I E., O.B.E., on the 24th October 1932.

Tiptur.—The distribution work has been completed and the water-supply plant from borewells is being operated.

New Design.

Chitaldrug.—As the pumping scheme from Kathral tank involved necessary sedimentation tanks and filters at a cost of about Rs. 2 lakhs, the Municipality was advised to instal five boreholes within the town which could be worked by air lift equipment and pumped to a masonry reservoir on the top of the Fort Tower.

Yediyur.—Plans and estimates for utilising the water to be obtained from a borewell under construction were

forwarded to the Amildar.

Talaguppe.—Plans and estimates for utilising the water to be obtained from a borewell under construction were forwarded to the Amildar.

Rs. 4,250 were prepared for water-supply to shandy grounds. The system includes deep well pump, elevated tank and distribution with eight or nine taps.

Kengeri.—Plans and estimates were prepared for a simple water-supply scheme from an infiltration well in

a nearby nallah.

Dodballapur.—The modified estimate for Rs. 32,862 for water-supply to Dodballapur town has had to be further modified to bring it within the available sum of Rs. 16,000 which the Municipality has set aside for this purpose. Government has been addressed to supply the necessary cast iron pipes from Bhadravati Iron Works as a loan to the Municipality and to waive the 18 per cent Establishment, Tools and Plant Charges in order that the scheme may be within the means of the Municipality and execution may be carried out immediately.

Madhugiri.—An abstract estimate amounting to Rs. 15,000 for a pumping scheme of water-supply from a borewell in the local hospital compound has been prepared

and sent to the President for approval.

Whitefield.—An original estimate for Rs. 19,824 for water-supply from a borewell was modified and reduced to Rs. 10,655 for the first stage and forwarded to the Municipal President for approval.

Central Distillery, Bangalore.—An estimate amounting to Rs. 9,300 was prepared for supplying pure water

to the Central Distillery from a borewell.

Chickthirupathi.—An estimate for Rs. 4,000 for supplying drinking water to Chickthirupathi by putting a borewell with a masonry tank and distribution was prepared and sent for approval.

Tyakal.—An estimate amounting to Rs. 2,500 for construction of a borewell and putting a hand rotary pump

was prepared and sent for approval.

Challakere.—An estimate for Rs. 1,240 for constructing a borewell and putting a hand pump was proposed for the supply of water to the Town Hall at Challakere.

Hebbal.—An estimate amounting to Rs. 487 for water-supply to the Hebbal Agricultural School from the borewell of the Serum Institute was prepared and forwarded for approval.

A further estimate for Rs. 165 for supplying drinking water to the nearby village of Hebbal was also prepared.

Malur.—An estimate amounting to Rs. 10,440 was prepared for water-supply to Malur Town for a pumping scheme from an infiltration well near the town tank.

Tuberculosis Sanatorium, Mysore.—An estimate costing Rs. 3,622 for supplying filtered water to the Princess Krishnajammanni's Tuberculosis Sanatorium, Mysore was prepared.

Arasikere.—The following estimates for improvements and extensions to water-supplies of Arasikere have

been prepared.

- 1. An estimate costing Rs. 4,000 for water-supply to Chick-thirupathi near Arasikere by means of a borewell, pump, masonry tank and limited distribution.
- 2. An estimate for Rs. 2,800 for providing additional submains and taps to Arasikere town distribution.
- 3. Proposals for improving the present pumping arrangements have been worked out and are under execution.

Nidaghatta.—An estimate for water-supply costing Rs. 3,730 for a borewell with power pump, a small elevated tank and a few taps was prepared.

Anekal.—An estimate for water-supply costing Rs. 3,150 including borewell pump and distribution was

prepared.

Indavala Village.—An estimate costing Rs. 3,780 for water-supply to the village from an infiltration well and pump power by a windmill was proposed.

Chickballapur.—A proposal to supply water to Chickballapur town from Ramasagara Tank was investigated

and found to cost Rs. 3 lakhs. It was recommended that

the scheme is too costly for the size of the town.

Subrahmanya Ghati.—An estimate amounting to Rs. 15,000 was prepared for supplying water to the Subrahmanya Ghati jatra grounds.

The following designs were modified and the estimates reduced.

Hosadurga.—A modified estimate amounting to Rs. 3,622 for complete water-supply distribution from an elevated reservoir was prepared and forwarded to the

Municipality.

Seringapatam.—An original estimate amounting to Rs. 31,180 and providing for water supply by means of an hydraulic ram had been modified and reduced to Rs. 22,140. The new scheme involved pumping arrangements from the river with filtration through pressure filters, elevated tank and distribution.

Hole-Narsipur.—The original estimate costing Rs. 62,460 had been modified and reduced to Rs. 46,000. This scheme provides for pumping from the river and filtration through pressure filters, elevated tank and

distribution.

Sollebyle.—A proposal for the supply of water to Sollebyle through borewells from an hydraulic ram scheme was considered undesirable in view of the perennial supply of water in the stream.

Maddur.—A modified estimate amounting to Rs. 54,700 had been forwarded for sanction to Government.

Channapatna.—The original estimate of Rs. 1,19,000 for a pumping scheme from the Kanva river for water supply to the town was modified to first stage including pumping plant, rising main, elevated tank and thirty public taps costing Rs. 56,400. Government have been addressed to furnish the necessary cast iron pipes from Bhadravati Iron Works as a loan and to waive the 18% Establishment, Tools and Plant Charges.

Konanur.—The original estimate costing Rs. 44,500 for water supply to Konanur was revised and reduced to Rs. 28,400. The scheme involves pumping from the river with filtration through pressure filters, elevated tank and

distribution.

French Rocks.—An original estimate costing Rs. 48,700 for water supply to French Rocks town from

an hydraulic ram scheme was modified and reduced to Rs. 28,320. The new scheme provides for electric pumping from the irrigation canal, sedimentation tanks, pressure filters, elevation tank and distribution.

Designs and estimates were prepared for improvements to the following water supplies.

Hassan.—Two estimates amounting to Rs. 3,690 for water supply to the northern and Krishnaraja extension from two experimental borewells were prepared and sent to the President, Municipal Council.

Mysore.—An estimate costing Rs. 22,550 for installing a new 3-million gallon pumping unit at Belagola was

sent for approval.

Belagola.—An estimate amounting to Rs. 2,150 for replacing the present $\frac{3}{4}$ line by $\frac{11}{2}$ galvanised iron pipe and giving four additional taps to Belagola village was forwarded to the Amildar.

Robertsonpet.—An estimate amounting to Rs. 11,000 for improvements of water supply to Robertsonpet was

prepared.

Bhadravati.—The present water supply to Bhadravati old town is through a 4" cast iron line from a Booster plant connected to the Bhadravati Iron Works water filtration system. Estimates for Rs. 8,730 for extending the distribution system to the rest of the old town area was prepared.

Nanjangud.—An estimate costing Rs. 11,600 for improving the water supply to Nanjangud town by providing for settling tanks, coagulent feed apparatus and low

lift pump was prepared.

New Yedatore Town.—An estimate costing Rs. 12,000 for improving the present water supply system by providing a pumping set with pressure filters and settling tanks was prepared.

Tumkur.—An estimate amounting to Rs. 3,800 for installing an electric pumping unit on Mydala tank bund was prepared to increase the capacity of the present

water supply system.

Chintamani.—The present water supply to Chintamani through slow sand filters proved very unsatisfactory. An estimate amounting to Rs. 29,500 has been prepared for improving the water supply by installing an electric pumping unit and pressure filters.

In order to improve the present bad quality of the filtered water, one of the slow sand filters has been overhauled under the supervision of a Sub-Overseer deputed from the Bureau of Sanitary Engineering.

Kolar:-

- 1. An estimate costing Rs. 2,688 for extending the present water supply distribution to the new extension, Bar Lines Katarpet, and Electric colony was prepared.
- 2. An estimate for emergency work done on the Mederhally tank bund which threatened to breach during the last rains was prepared.

Tiptur.—The following improvements to Tiptur water supply system were proposed.

- 1. An etsimate costing Rs. 12,036 for water supply to the new extension.
- 2. An estimate costing Rs. 5,290 for extending the present distribution system.

Chlorination.

Because of the poor bacteriological results obtained from some of the piped water supplies of the State, Chlorinators were installed at the following water supply systems for sterilisation.

Shimoga.

Kolar.

Chickmagalur.

Hassan.

Nanjangud.

Hunsur.

Tiptur.

Chintamani.

Mudigere.

Collection of Water Samples.

One thousand, four-hundred and ninety-seven samples of water were collected from public water supplies for bacteriological examination at the Public Health Institute, Bangalore.

Bangalore.—Nine hundred and sixty-three samples of water were collected from the Filter plant and distribution

reservoirs in Bangalore City. The results of the examination were as follows:—

	er of les]	3. Co	oli In	dex	per 1	00 c.c.		
Source	Number c samples	0	2	4	6	8	10	20	100	1,000	10,000	1,00,000
Applied water Clear well Malleswaram Reservoir.	286 288 29	229 190 24	9 44 2	11 18 2	2 10 	6 7 	9	10 4	17 6 1			***
Palace Reservoir High Level Reservoir.	25 27	11 20	5 2	$\frac{1}{3}$	2	1	1	2	2	•••	r + 1	• • •
Low Level Reservoir.	27	13	5	4	•••	1	1	3	• • •	•••		
Basavangudi Reservoir.	24	4	5	8	3	2	1	1 7	•••	• • •	•••	* * *
Chamarjpet Reservoir.	95	59	6	4	2	1 3	3 5	4	7	• • •	•••	• • •
Taps Raw Water	17	1					6	6	3	ï	•••	• • •
Experimental filters.	123	21	19	21	11	9	20	16	6	• • •	•••	•••
Total	963	575	98	79	35	30	48	5 3	44	1		•••

Thippagondanhalli.—One hundred and eighty-five samples of water were sent in from Thippagondanhalli Reservoir Colony water supply. The results of the bacteriological examination were as follows:—

Source		ber of ples					В.	Coli	per I	L00 c.	c.		
		Num sam	0	2	4	G	8	10	20	100	1,000	10,000	1,00,000
River water Applied water Filter test cock Reservoir Tap Suction well	•••	41 7 36 41 26 34	2	•••			•••	1 2 1	2 2 8 8 6 3	8 2 15 13 11 12	15 3 11 17 7 10	13 1 1 8	1
Total	• • •	185	3	•••		•••	• • • •	4	29	61	63	23	2

Municipal Water Supplies.

Two hundred and forty-one samples of water were collected from municipal water supplies. The results of the bacteriological examination were as follows:—

Carros		er of			В. (Joli 1	ndez	r per	100	с. с.			Remarks
Source		Number samples	0	2	4	6	8	10	20	100	1,000	10,000	Remarks
SIVASAMUDRAM— Rain water Filter water Channel water		6 8 2	1	2	• • •	1		1	2 2 	1	1 2	2	Coagulation Pressure filters.
Mysore— Raw water Applied water Filtered water Tap water Reservoir	•••	3 4 5 4 1	 1 3 1	• • •	··· 2 ···	1		•••	1 1 	1 4 1	1	•••	Coagulation Gravity filters Chlorinated
Nanjangud— Raw water Filtered water Tap water River water	• • •	4 5 3 1	1	•••	• • •	• • •	•••		1 1 	2 2	3 1 1 1	•••	Pressure filters.
Hunsur— Raw water Filtered water Tap water River water		4 5 4 1		,,,	•••	•••	•••	•••	1 2	1 3 2	1 1 1	2	Pressure filters.
YEDATORE— Raw water Filtered water Tap water	•••	2 3 4	•••	•••		•••	•••	i	$\frac{1}{2}$	2	2 1 		Pressure filters.
Kolar— Filtered water Reservoir Tap water Raw water Applied water	• • • • • • • • • • • • • • • • • • •	4 1 3 3 1	•••				• • •	1	···	3 3 1	 1 2	•••	Slow sand filters. Pressure filters.
CHINTAMANI— Raw water Filtered water Tap water	• • •	2 2 2	1		1	•••			1 1	··· 1	1	•••	Slow sand filters.
KOLAR GOLD FIELD— Raw water Applied water Filtered water Tap water Reservoir	•••	2 2 7 2 8	 2 2 3	5	2	ï			1 1 1	1	1		Coagulation Gravity filters Chlorinated
Tunkur— Reservoir Tap water Raw water Applied Filter	•••	1 7 6 4 3	2	1	3	1		1 2 11 1	 1	1 3 1	···· 1		
MUDGERE— Reservoir Tap water		4	1			•••	•••	• •	 	3			Raw water pumped.

		r of			В.	Coli	Inde	x pe	r 100	c. c.			
Source		Number samples	0	2	4	6	8	10	20	100	1,000	10,000	Remarks
CHIKMAGALUR— Raw water Filtered water Reservoir Tap water	• • • •	4 5 2 1	• • •	• • •	··· 1	• • • •	• • • • • • • • • • • • • • • • • • • •	• • • •	1	4 1 1	3	1	Slow sand filters.
BHADRAVATI— Tap water Raw water Filter		5 4 6	1	•••	•••	i	1 1	1	2 1 2		2		Pressure filters.
SHIMOGA— River water Filter ,, Reservoir Tap water Raw ,,		3 7 4 5 3		1 1	1 		•••	1	3 2 2	1 1 2 2 1	1	1 2	Pressure filters.
Kadur — Raw water Filter water Tap water	• • •	3 3 3	1 2	 1	• • •	1	•••	2	1	1	•••	•••	Slow sand filters.
Sollebyle— Reservoir Tap water	•••	1 1	• • •						i	1	•••	•••	Spring water.
Koppa— Raw water Tap water		1 1		•••		1	• • •		1	•••	•••	•••	Tank water settled and raw.
HARIHAR— River water Filter ,, Tap ,,	•••	3 2 3		•••	•••			•••		1 2 3	1	1	Pressure filters.
DAVANGERE— River water Applied water Filtered water Tap water Raw water	• • • • • • • • • • • • • • • • • • • •	1 3 6 5 3	1	• • • • • • • • • • • • • • • • • • • •	2			1	1 2	2 2 3 	2	1	Coagulated Gravity filters.
CHITALDRUG— Raw water Tap ,,	•••	1 3	2							1 1	• • •	• • •	Tank water settled and raw.
HIRIYUR— Tap water	•••	7		1	1	2		2		1			Settled and raw water
HULIKERE Raw water First filter Final filter Filtered water Reservoir Tap water	•••	2 1 1 1 1 1 1 1							1	1 1 1 1 1 1 1 1 1			

Source	No. of samples		į	В.	Co	oli .	Ind	lex	per :	100 с	.c.
		0	2	$\begin{vmatrix} \dot{4} \end{vmatrix}$	6	8	10	20	100	1000	10,000
Kyamantanhalli.— River water	1	•	• •	• •	• •		• •	• •	• •		1
Total	241	26	13	1 4	9	2	1 4	41	76	32	12

Municipal Borewells.

Sixty-seven samples of water were collected from Municipal Borewells and the results of the bacteriological examinations were as follows:—

Source		o. of			В.	Co	li I	Ind	ex	per 1	.00 с.	c.
		76	0	2	4	6	8	10	20	100	1000	10,000
Channapatna Mysore Arkalgud Hassan Tarikere Davangere Chitaldrug Hosadurga Sira Madhugiri Arsikere Tiptur Kunigal Dodballapur		3 1 2 11 7 3 11 3 1 2 7 7 4 5			3	2 1	1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 4 1 4 1 1 3		
Total	• •	67	20	5	5	3	3	6	8	17	• •	÷ •

Forty-one samples of water were collected from step wells, dug wells and tanks used as water supplies. The results of the bacteriological examination were as follows:—

C	No. of				В	. C	oli	In	dex 1	oer 10	0 c.c.	
Source	samples	0	2	4	6	8	10	20	100	1000	10,000	100000
Channaraya-												
patna.—												
Step well	1		• • •					•••	•••	1	• • •	• • •
Nandhi.—												
Step well	2	2				(• • •						
Mulbagal.—											•	
Well water	1		•••								• • •	1
Srinivasapur					1							
Well water	1								000	•••		1
Hoskote.—]						
Well water	1										• • •	1
Seringapatam.—				}								
Well water	1									•••	• • •	1
Maddur.—												
Well water	1	• • •							• • •		•••	1
Channapatna.—												
Well water	1		••					• • •	0 • •			1
Malur.—												
Well water	2				• • •					1	• • •	1
Step well	1						• • •				•••	1*
Belur.—		1										
Dug well	1						1		• • •		•••	
Bangalore.												
Dug well	6						1	1		1	3	
Malur.—												
Dug well	1			• • •					• • •		1	• • •
Chikballapur.—							1					
Dug well	1									•••	1	
Devanhalli.—						1	}					
Dug well	1							• • •		• • •	1	
Srinivasapur.—			}									
Dug well	1			.		,	•			1		
Bowringpet.—												
Dug well	1						• • • •				1	• • •
Hoskote.—								{				
Dug well	2										1	1
Kunigal.—												
Dug well	2	• • •									2	
Saklespur.—												
Dug well	1]					•				1	
Nelamangala.—				1								
	1											
Dug well	1						$\cdot \cdots$			•••		1

C		No. of				В	. C	oli	In	dex 1	oer 10	00 c.c.	
Source		samples	0	2	4	6	8	10	20	100	1000	10,000	100000
Madhugiri.— Dug well Kyamantan-	1	5	• • •		• • •	• • •			• •	2	• • •	2	1
halli.— Dug well Chitaldrug.—		2		• • •			• • •	•••	•••	• • •			ig 2
Dug well Tank (tap)		1 2		1			• • •	1	1 1	1	•••		
Nandi.— Tank		1		1						•••	• • •	0 6 0 0	
Total	•••	41	2	1	•••			2	3	3	4	13	13

DRAINAGE, SEWAGE AND SANITARY WORKS.

Nandi Village.—The drains constructed by a local contractor were inspected and found to be defective. Orders were issued for re-advertising the scheme.

Kalasa.—An estimate for the drainage of Kalasa town was modified to facilitate the work being undertaken

in stages.

Chikballapur.—The main drain estimate for Chikballapur town was scrutinised and a modified estimate prepared and sent to the municipal council.

Tiptur.—Estimate for a pipe drain for diverting sullage away from the borewells and to the other side of the town was sent to the president, municipal council.

The following proposals were made for the sewage collection and disposal systems.

Bangalore.—Estimates and plans were prepared for the disposal of the effluent from the septic tank at the Bangalore Palace. The Palace authorities are undertaking the improvement.

Bangalore—Plans and estimates were prepared for diverting the waste-matter of the Vaccine Institute and

providing a flushing latrine and septic tank.

Central Jail Extension.—The sub-main sewer No. 2 of the comprehensive scheme for Bangalore City providing for the drainage of Central Jail Extension by way of

Balepet, Chikpet and Sultanpet and emptying into the flood water main drain was estimated for Rs. 34,140.

Basavangudi.—Sub-main sewer No. 9 of the comprehensive scheme for Bangalore city providing for drainage from Basavangudi Mohamadan Block by way of Mavalli and Lal-bagh is being prepared.

Malleswaram.—The design for a settling tank for the sewage from the Maharaja Mills and Malleswaram was

sent to the Municipal Engineer.

Central Distillery, Bangalore.—An alternate estimate costing Rs. 19,724 was prepared for purifying and softening the waters of the Chickakere tank used by the Govern-

ment Central Distillery.

Soap Factory, Bangalore.—Plans and estimates were prepared for the removal of waste-matter and sewage from the Soap Factory, Central Industrial Workshop, Century Club and the Electric Offices with an underground pipe sewer to be connected to the existing underground drain.

Bodyguard Lines, Mysore.—An estimate for Rs. 4,148 for drainage arrangements and sewage disposal plant was sanctioned and the execution was undertaken by the bureau.

Railway Colony, Mysore.—The drainage scheme for the Railway Colony and the station yard was completed and forwarded to the Railway authorities.

The following estimates were prepared for Sanitary Works.

Bangalore.—Plans and estimates were prepared for providing flushing latrine facilities at the Race Track which borders the Low Level Reservoir of Bangalore City.

Bangalore.—The construction of the sanitary fittings to the New Insurance Building was completed and handed

over.

Intermediate College, Bangalore.—An estimate for providing sanitary fittings to the latrine amounting to Rs. 1,000 was sent to the Assistant Engineer, Headquarters Range.

Central College, Bangalore.—An estimate for Rs. 2,575 for providing a flushing latrine of six seats and six urinals was sent to the Assistant Engineer, Head-

quarters Range.

New Medical School, Bangalore.—An estimate for the fixing of sanitary and lavatory fittings was prepared and work executed.

Carlton House, Bangalore.—An estimate for Rs. 4,800 was prepared for providing sanitary fittings to seven bath rooms and necessary drainage and sewage disposal arrange-

ments. The work was executed during the quarter.

Rs. 15,126 for providing sanitary fittings for six bath rooms with necessary drainage and sewage disposal arrangements was prepared. The work was executed during the year.

Bangalore.—Repairs to sanitary fittings in Victoria

Hospital.

Repairs to sanitary fittings in Minto Ophthalmic

Hospital.

An estimate costing Rs. 806 was prepared for providing sanitary fittings with flushing arrangements for the latrines at the City Market.

Mysore:—

- (a) Improvements to the Lavatories of the Medical College.
- (b) Improvements to the automatic flushing latrines of the Jumma Mosque.
- (c) Repairs to the sanitary fittings in Vani Vilas Hospital.

Railway Audit Office, Mysore.—An estimate for construction of flushing latrine and scwage disposal plant for Rs. 1,687 was sent to the Agent, Mysore Railways, Mysore.

Maharaja's College Hostel, Mysore.—An estimate for providing a lavatory and repairs to the flushing cistern was sent to the Executive Engineer, Special Division,

Mysore.

Lalitha Mahal, Mysore.—An estimate for Rs. 250 for repairs and sanitary fittings was prepared and the work executed.

Ayurvedic College, Mysore.—An estimate was prepared for shifting lavatories and the work executed.

Ophthalmic Hospital, Mysore.—An estimate for Rs. 2,175 for sanitary installations for the Ophthalmic

Hospital was sent to the Executive Engineer, Special

Division, Mysore.

Exhibition Buildings, Mysore.—Estimates for constructing an additional flushing latrine and installing one borehole latrine for demonstration purposes were prepared and the work executed.

Town Improvements.

Survey works were executed at the following towns and villages for investigation and design of town improvements:—

Tumkur ... Survey work of Tumkur was completed.

Dodballapur ... Survey work of Dodballapur was completed.

Lay out plans for proposed extensions at Maddur and Chennarayapatna were proposed:—

Chennarayapatna... A lay out for shop sites at Chennarayapatna was prepared.

Survey works of the following towns are in progress:—

1. Kolar 2. Honnali

3. Saklespur Extension

4. Arkalgud

5. Chikballapur

6. Kunigal

7. Hassan

8. Chikmagalur

9. Shimoga

Construction of Borehole Latrines.

Borehole latrine construction was carried out by a separate section of the Bureau of Sanitary Engineering under the charge of an Assistant Engineer. The first units were confined to jatra grounds where there was no facility for night soil collection or disposal. Additional installations were made at Hessarghatta Grass Farm and the Hebbal Agricultural School. Municipalities were then interested in the installation of borehole latrines and numerous requests were received for instructions in the construction and the loan of the necessary apparatus. Four requests for information were received from parts outside Mysore State. It was found necessary to order 32 additional pairs of augers in order to meet the demand. Bangalore City, Mysore City and the Bhadravati Iron Works each purchased their own equipment from the Bureau of Sanitary Engineering for borehole latrine

installation. The following table shows the number of borehole installations made during the year 1932:—

		No. of bor		Dept box			l latrines and in use	squat- er con-	
Name of place		Successful	Unsuccessful	Minimum	Maximum	Nature of soil	Number of l	Enclosures and sq ting slabs under struction.	Remarks
BANGALORE DISTRICT	r.			Feet	Feet	,			
Yediyoor Anekal Hessarghatta Adigodi Koramangala Benuganahalli Chikballapur Taluk Dodballapur do Madhugiri do Mysore City		34 6 2 1 2 2 1 1 1 2 1 6 2 1 13 6 19 9 3	8 2 14 3 2 4 1 3 1	16 16 20 14 17 13 13 16 14 16 16 17 18 17 13 14 14 14 14 14 14	19 19 20 14 17 13 13 16 16 15 18 18 18 17 17 16 16 17 17	Gravel Do Soft soil Hard Gravel Soft do Hard do Do Do Do Gravel Do	11 5 2 1 1 1 1 1 1 6 2 2 1 10 6 14 13 3 3	17* 1 1 1 2 3 4 3 6 6	*6 were used temporarily.
Total	• • •	150	39		•••	4 • • •	100	44	

Compost.

Numerous trips of inspection to the compost field were made during the year and experiments proposed by the Committee consisting of the Director of Agriculture, Dr. Fowler and the Sanitary Engineer were carried out at the compost field under the supervision of the Sanitary Engineer. It was definitely determined that fly breeding could be controlled by proper emulsion of the ingredients before application. The strength of application, the amount to be used, the interval of application and the period of turning were definitely established for compost experiments under Mysore Conditions.

The following method of composting proved to give

the best results with the least amount of labour.

Raw Rubbish. The street rubbish collected from the City was first dumped outside the area on which the pile was to be formed. The rubbish was then carefully worked

into position excluding all bricks, stones, chatties, tins, glass, fine dust, etc. The size of the pile before treatment was six feet wide at the base, four feet wide on top and with a depth of two feet. The length of the pile depends upon the amount of material available.

Emulsion.—An emulsion of night soil and water carefully prepared so that all extraneous matter, such as leaves, etc., were removed and prepared so that all solid particles of night soil were broken down to form a

homogeneous emulsion.

- (a) Method of Treatment.—The rubbish pile was first trenched by pulling the centre of the pile toward the edges. The emulsion was then applied to this trench covered over again by pulling in the sides.
- (b) The amount of emulsion.—Two gallons per running foot of pile.
- (c) The strength of emulsion.—One part of night soil to four parts of liquid.
- (d) Period of application.—Daily until the entire pile is moist without being wet and then applications every third day.
 - (e) Period of turning.—Once each week.

Mysore City continued the process of composting the night soil and rubbish throughout the year. Some difficulty was encountered during the heavy rains of the monsoon season and it was definitely established that fly breeding was the result of improper emulsifying of the

night soil and liquid before application.

It was necessary to determine more or less accurately the amount of fly breeding taking place in the compost heaps. A concrete fly trap platform based on the design of the fly traps successfully used at Coonoor was constructed for fly breeding investigation. The platform is 40 feet long and 20 feet wide separated into two sections by a fly larvae baffle constructed down the centre. The entire platform is surrounded by a special concrete fly trap trench. A compost heap was formed on one half of the platform and received treatment similar to the 500 feet compost heaps of the Municipality. Compost heaps of the same raw material but treated with emulsions properly prepared were formed on the other side of the fly platform. A Sanitary Inspector was detailed to make daily counts

of fly larvae on either side of the platform, or in the fly trap trench. The results of these investigations proved conclusively that fly breeding can be expected where the night soil is applied to the compost heaps in the crude condition in which they are brought to the Sewage Farm. The demonstration heaps on the other side of the platform were entirely free from fly larvae and investigations proved that where special pains are taken to prepare a proper emulsion of night soil and liquid that fly breeding is negligible or is entirely prevented by the uniformally high temperatures maintained throughout the pile.

During the first half of the year, 1,811 tons were manufactured, of which 1,070 tons were sold to the Agricultural Department for a sum of Rs. 3,902. The production of the latter half of the year was screened and piled into storage heaps to meet this year's demand of the

Department of Agriculture.

Numerous persons interested in the process of composting visited the Mysore City Sewage Farm to witness the process. Among those who visited the Farm were Lieut. Colonel, J. R. D. Webb, o.B.E., I.M.S., Director of Public Health, Madras, who later started composting in Madras Presidency and Mr. A. M. Brodie of Ceylon who was interested in starting the process at Jaffna, Ceylon and the officials of the Bangalore City Municipality who were interested in starting the process at Bangalore.

BUREAU OF RURAL HEALTH.

Rural Health Unit, Mandya Taluk, Mysore District.

During the year the Assistant Health Officer of the Unit was transferred to Mudgere Malaria Station and in his place a Probationary Sub-Assistant Surgeon was

appointed for training.

In the early part of the year under review, water was turned on in the Maddur branch of the Irwin Canal and Irrigation was commenced in a few villages. Immediately after, a large increase in the number of mosquitoes was observed in the cultivated area, and coincident with this, cases of malaria were reported from this hitherto comparatively malaria-free locality. The disease attained epidemic proportions by April. Six villages were very severely

affected. The spleen rate in them rose markedly from insignificant figures to 80 per cent.

No.	Name o	f village		Spleen rate before water was let into canal	Spleen rate after water was let into canal
				Per cent	Per cent
1	Komerhalli	•••	₩ 4 4	4	81.0
2	Gigundipatna	• • •	• • ~	11.4	68'1
3	H. Malligere	•• ©	• • •	3.3	82.0
4	Horganhalli	•••	***	0.0	55.3
5	Satnur		• • •	12.0	32.8
6	Chikmandya	• • •	c • •	20.0	32.2

In four villages the disease was particularly severe accounting for about 100 deaths, for a total population of 3,500. With a view to determine the changed local conditions, a health survey of the village in the Irwin Canal Zone was undertaken under orders of Government. Subsequently, Government sanctioned a special grant of Rs. 15,000 for free distribution of quinine and other relief measures in the affected area. The villages in the locality were dry with no canals and irrigation. With the advent of the Irwin Canal, the local conditions have entirely changed and there is danger of many of the villages, which are, as a rule, situated in the valleys and near tanks, getting water logged. To avert this, the engineering and revenue officials are trying to carry out minor alterations in the alignment of the canal, etc.

The Dewan and the Second Member of Council

paid a visit to the locality during the year.

Plague which prevailed during the tail end of 1931 continued during the early part of the current year. Twenty-one villages were reported infected. A total of 181 attacks with 112 deaths occurred. All the places infected were visited by the Unit staff for anti-plague

measures. Six thousand and twenty-nine anti-plague inoculations were done as per statement given below:—

Monthwar statement of anti-plague inoculations in the Rural Health Unit, Mandya.

Nazar ya manana nagaman nagama	and the second second		,			
Month		Inocu	ılated	Unino	Number of Inoculations	
		Attacks	Deaths	Attacks	Deaths	
January February March April May June July August September October November December		5 1 1 1 1 2	1 1 	87 5 31 10 3 1 1 12 17	52 3 23 8 3 2 1 1 8 9	2,001 492 278 15 5 661 54 1,664 859
Total	• • •	11	2	170	110	6,029

Eleven attacks with two deaths among the inoculated were reported, as detailed below:—

Details of attacks and deaths among the inoculated.

Period between inocalation and		Number of attacks	Number of	Period between attacks and deaths in days						reries
attacks in	tacks in days		deaths	1	2	3	4	5	6	Recoveries
7- 14		2	1	•••			1	•••		1
15 - 21		2		•••		4		•••		2
22- 30	• • •	•••	• • •	• • •	• • •	• • •	• • •	•••	• • •	• • •
31-60	* * *	4	7	• • •	***	• • • •	•••	1	• • •	3
61 90	• • •	.1	•••		• • •	• • • •	• •••		• • •	1
91-120	• • •	1	• • •	• • •	•••	,	•••	• • •	• • •	1
121—150	• • •	• • •	•••	* * *	• • •	• • •	•••	` •••	•••	• • •
151-180	• • •	• • •	• • •	• • •	•••	• • • •	•••	•••	•••	•••
Unknown	• • •	1	* * *	• • •	•••	•••	•••	• • •	•••	1
Total	•••	11	2				1	1		9

Four cases of diarrhea and vomiting were reported from the Voddar Cooly Colony in February. The cases were not clinically cholera. Steps were taken to protect the immediate neighbourhood. Six hundred and five anti-cholera inoculations were given.

Five attacks with one death from smallpox were reported in the months of June and July among the Voddar Coolies. The spread of the disease was controlled by promptly resorting to intensive vacci-

nation.

During November a village in the Unit area reported smallpox. The source of infection was traced to a boy of the neighbouring village who returned with smallpox from Ganjam (Seringapatam) a few days prior to the outbreak and formed the focus of infection. The attempts of the vaccination staff were thwarted for a considerable time by the villagers concealing the unprotected. Before systematic vaccination campaign was commenced 14 attacks with one death had already occurred. This was a lesson to the villagers and they finally agreed for vaccination. One hundred and seven primary vaccinations were done in the village out of a total population of 700. The staff did 3,491 primary, 215 secondary and 442 revaccinations in the Unit area.

Measles prevailed severely in the area. The actual number of attacks and deaths could not be recorded due to inefficient reporting. An attempt was made to ascertain the incidence of the disease in Mandya town by a house to house survey, and this revealed 97 attacks and eight deaths, all due to the complication of broncho-

pneumonia.

Forty-eight cases of typhoid with ten deaths were registered. The disease broke out in an epidemic form in Nidaghatta, Maddur taluk, where 15 attacks and four deaths occurred. The infection was mainly among children of school-going age, and as far as could be elicited, eatables from the local coffee hotel were probably responsible for the spread of the disease. The village water supply was chlorinated as a precautionary measure. Thirty-three T.A.B. injections were given in Nidaghatta and six in Mandya town.

The midwives of the Unit paid 477 visits to 22 villages in the Unit area. They made 3,301 pre-labour and 2,042 post-labour visits and 63 visits for miscellaneous

cases. They also conducted 66 labour cases.

Statement according to months of the work of the midwives for 1932.

		Number	Number	Na	61		
Month		of villages visited	of visits paid to villages	Pre- labour	Post- labour	Miscel- laneous	Cases conducted
January February March April May June July August September October November December		26 22 23 21 19 22 21 22 24 19 21 16	45 46 46 40 39 41 86 37 44 39 34 30	272 252 308 308 285 285 261 283 309 273 228 245	156 131 185 136 178 146 178 214 231 178 144 165	3 12 4 8 12 4 4 4 2 4 2 4	1 3 6 8 4 5 9 9 6 8 2
Total	• • •	•••	477	3,309	2,042	63	66

The Unit conducted spleen survey in 34 villages in and outside the area. Three hundred and ten were found positive out of 2,099 children examined for enlarged spleens.

Table showing the results of spleen survey.

Age group			Total	Negative	Size of spleen				ntage	
					Palpable	1	2	3	4	Percentage
0—1 1—4 5—9 10—14 15 and above		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	49 497 1,083 426 44	48 459 9 1 1 340 31	$egin{array}{c} 1 \\ 12 \\ 73 \\ 30 \\ 5 \\ \end{array}$	17 68 33 3	 7 23 14 3	 2 7 9	 1 	•••
	Total	•••	2,099	1,789	121	123	47	18	1	10.0

After a lapse of three months (January to March) the lady doctor from the Zenana Mission Hospital, commenced the Maddur Maternity Clinic work. She held 114 clinics and examined 1,050 cases. The lady doctor extended her work to Somenhalli Village from May. These clinics are being held in three places now. They continue to be popular.

Statement of clinics held.

	Month		Clinics			
	WEOHUH		Number held	Number attended		
January to	March		0 • •	• • •		
April	• • •	•••	8	67		
May	• • •	• • • [13	189		
June		•••	16	164		
July	• • •		12	142		
August		8 113	15	123		
September	5		1 2	106		
October	•••		12	88		
November		• • •	14	94		
December	* * *		$\overline{12}$	67		
	Total	•••	114	1,050		

The Unit laboratory examined 246 blood-smears, 12 spleen-smears from dead rats, 12 samples of fæces, 37 of

urine and eight of sputum.

The Public Health Institute examined for the Unit 33 samples of blood for Wassermann and two for Widal, one sample of sputum for bacillus pestis, one throat-smear for diphtheria and four samples of motion for dysentery.



PART II

VITAL STATISTICS

(Bureau of Vital Statistics.)



CONTENTS

fruit?	ant-ra.										AGES
I.	Report				• • •		• • •		• • •	101	-114
			ulation				• • •				101
		Birt								101	-102
	(iii)	Dea	ths							102	-114
		(a	e) Death	Rate					• • •	102	-104
		(8) Infant	Mort	ality						104
		(c) Statist	tical H	istory o	of Chief	Diseas	ses		105	-114
r w	~	_									
II.			Tables—	-		_					
	Table	1,	Reporte								
				-	e State	in eacl	n mon	th of		4 - 4 - 4	
			Year 1				• • •			115	-116
	Table	2.—	Reporte								
			of the	Mysor	e State	in each	n mon	th of			
			Year 1				• • •			117	-118
	Table	3	Deaths	reporte	ed in th	ne Dist	ricts a	nd C	ities		
			of the	Mysor	e State	classifie	ed acc	ordin	g to		
			Hindu	s, Mus	salman	s and o	ther (Classe	s in		
			the Ye	ar 193	2		• • •		• • •		119
	Table	4.—	Deaths	reporte	ed in th	ne Dist	ricts a	nd C	ities		
			of the	Mysor	e State	classifie	ed acc	ording	g to		
			Age an	id Sex	in the	Year 19	32			120	-121
	Table	5.—	·Births a	and De	aths re	ported :	in the	Dist	ricts		
						lysore					
						d Disea					
			1932	O				,		122 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121 - 121	-123
	Table	6.—	Births a	nd De	aths re	ported i	n the	Distr	icts.		
						to Ru					
					year 1		444				124
	Table	7	Deaths		•		• • •	r of			
	- 0.520	• •				cricts ar					
						h Mon					
			1932		•••	11 1/10/11		0210	•••		125
	Table	8	Deaths	from P		enorted		Dist			J. W. ()
	1.000	0.				sore Sta		_			
			of the			5010 1500	00 111 0a	011 211	711011		126
	Table	9	Deaths			7	do		• • •		127
			Deaths			7	do				128
			-Deaths				do	(Fig	11725		120
	Table	11,				r Fever		(1.18	ares	,	• • •
	Table	19	Deaths				do		• • •		
			Deaths				do				129
									• • •		140
	Table	14	Deaths	HOIII L		•	do				120
4	Table	15	Dootha	from T		arrhoea	• • •		* • •		130
	rabie.	TO	Deaths	nom t		-	J				191
	m-1-1-	16	Dest	fuere		seases	do	(10)			131
	rable.	10	Deaths			~	do	(Fig			
	m-11	17			A-	iratory	_	,	•••		• • •
	Table	11	Deaths		-		do	(Fig	ures		
	,		not ava	allable,)		•••		• • •		• • •
										口*	

					PAGES
	Table 18.—Deaths	from Child-bi	rth reporte	d in the	
	Distric	ts and Cities of	the Mysore	State in	
	each 1	month of the	year 1932	(Figures	
	not ava	ailable)	• • •	• • •	
	Table 19.—Deaths	from Injuries	d o	• • •	132
	Table 20.—Deaths:	from Suicide	do	• • •	133
	Table 21.—Deaths	from Drowning	do	(Figures	
	include	ed under Wound	ds and Accid	lents)	• • •
	Table 22.—Deaths	from Wounds a	\mathbf{n} d		
	• -	Accid	ents do	• • •	134
	Table 23.—Deaths of	aused by Wild A	Animals do	• • •	135
	Table 24.—Deaths	from Snake-bite	e do	(Figures	
		ed under Deat	hs caused	by Wild	
	Beasts		•••	• • •	• • •
	Table 25.—Deaths		do		
		es not available		• • •	***
	Table 26.—Deaths			• • •	136
	Table 27.—Alphabe	etical List of Ta	luks in Mys	ore State,	
	giving	statistics of Bir	ths, classifi	ed Deaths	
	and of	Infant Mortali	ty in the Ye	ar 1 932	137-139
	Table 28.—Alphabe	etical List of Mu	inicipalities	in Mysore	
	-	giving statistics		v	
		s and of Infant			
	1932	•••	•••		140-144
III.		- Ac mar Daily	Ranoute		
L.J.J.	Table 29.—Alphabe			tod with	,
		in each Taluk	•	,	
		Attacks and De			115 (00
		ar 193 2			145–163
	Table 30.—Alphabe				104 400
	Small		do	• • •	164-168
	Table 31.—Alphabe				4.00
W W T	and a second sec	d with Cholera	, qo		169
IV.					ace Page
	Graph 1.—Reported		• ,		
		h Month of the	Year 1932 (Males and	
	Fernal		• • • .		102
	Graph 2.—	do	(N	Iales)	103
	Graph 3.—	do		emales)	104
	Graph 4.—Reporte	ed Deaths from	n Chief Di	seases in	
		e State. (P			
	Death		•••	• • •	105
	Graph 5.—Attacks	and Deaths fro	m Plague in	n Mysore	
111	State i	n each Month o	f the Year 19	932 (Daily	
	Return	ns)	344	•••	107
	Graph 6.—Attacks		n Smallnox i	n Mysore	
	State	in each Mont	h of the Y	ear 1939	
	(Daily	y Returns)			109
V.	Maps.—	, and the state of	• • •		103
	Map 1.—Geograph	ical Distribution	n of Plague	in 1939	
	(Daily	Returns)			106
	Map 2.—	Do	Sm	allnov	108
	Map 3.—	T)		anpox	110
	4.				

VITAL STATISTICS.

(i) Population.

At the recent Census of the Mysore State taken on February 26,1931, the enumerated population was 6,423,189 excluding Civil and Military Station, Bangalore. Assuming this to be the true population on that date, the estimated population on July 1, 1931 was 6,442,584.

The following are the estimated populations in the

Districts and Cities as on July 1, 1932:—

District or City				imated Population uly 1, 1932.)
Bangalore	• •			1,103,831
Chitaldrug	• •	s •		667,690
Hassan		• •	• •	598,689
Kadur	a ,	<u>_</u>	• •	349,628
Kolar		• •	• •	856,690
Mysore	• •	• •	ú t	1,525,679
Shimoga				523,690
Tumkur	• •	• •	• •	873,322
	Total (Mys	ore State)		6,499,218
Bangalore City		f 4		179,620
Mysore City	• •	4 6		110,273
Kolar Gold Field	1	• •	• •	84,755
Civil and Militar	ry Station,	Bangalore	• •	136,162

The rates computed in the following report on Vital Statistics are based on the estimated populations and are therefore comparable with similar rates in other countries.

(ii) Births.

During the year under report, 115,627 births were reported as compared with 119,762 in 1931. Of these, 58,778 were male and 56,849 female, the ratio of male to female births being 103 to 100. The birth-rate during the year was slightly less than in 1931, the rates being 17.79 and 18.64 respectively. Table 1 gives the recorded births in the districts and cities in each month.

Analysing the figures by months, it is seen that the maximum number (11,054) of births was registered in

October and the minimum (8,405) in January. In the three cities together, 12,556 births were reported, the greatest and smallest monthly totals being 1,174 in April

and 928 in January.

The birth-rates in the districts varied from 11'36 in Hassan District to 20'85 in Kolar District. Assuming, as a result of the survey made in 1929, that 44 is the normal birth-rate in the districts, it may be stated that the recorded rates are less than 50 per cent of the true rates.

In cities, however, the rates are more reliable than in the districts. Kolar Gold Field reported a birth-rate of 44.47 whilst Mysore City recorded a low rate of 25.11. Bangalore City rate is between these two, being 33.50.

In this connection, it is significant to notice that the following 11 Municipalities have reported birth-rates

exceeding 40 per mille of population:—

Chintamani, Goribidnur, Heggaddevankote, Krishnarajpete, Koppa, Madhugiri, Nagar, Nagamangala, Sarjapur, Sira and Tirthahalli.

It follows therefore that only 11 out of 106 (or about 10 per cent of) Municipalities have registered fairly reliable birth-rates, the estimated birth-rates for urban areas

being about 40 and over.

Tables 27 and 28 give a complete alphabetical list of Taluks, and City and Town Municipalities in Mysore State, respectively with statistics of births and deaths from different diseases. It is proposed to publish such statements in future for reference purposes and for the use of research workers in the field of public health.

(iii) Deaths.

(a) Death Rate.

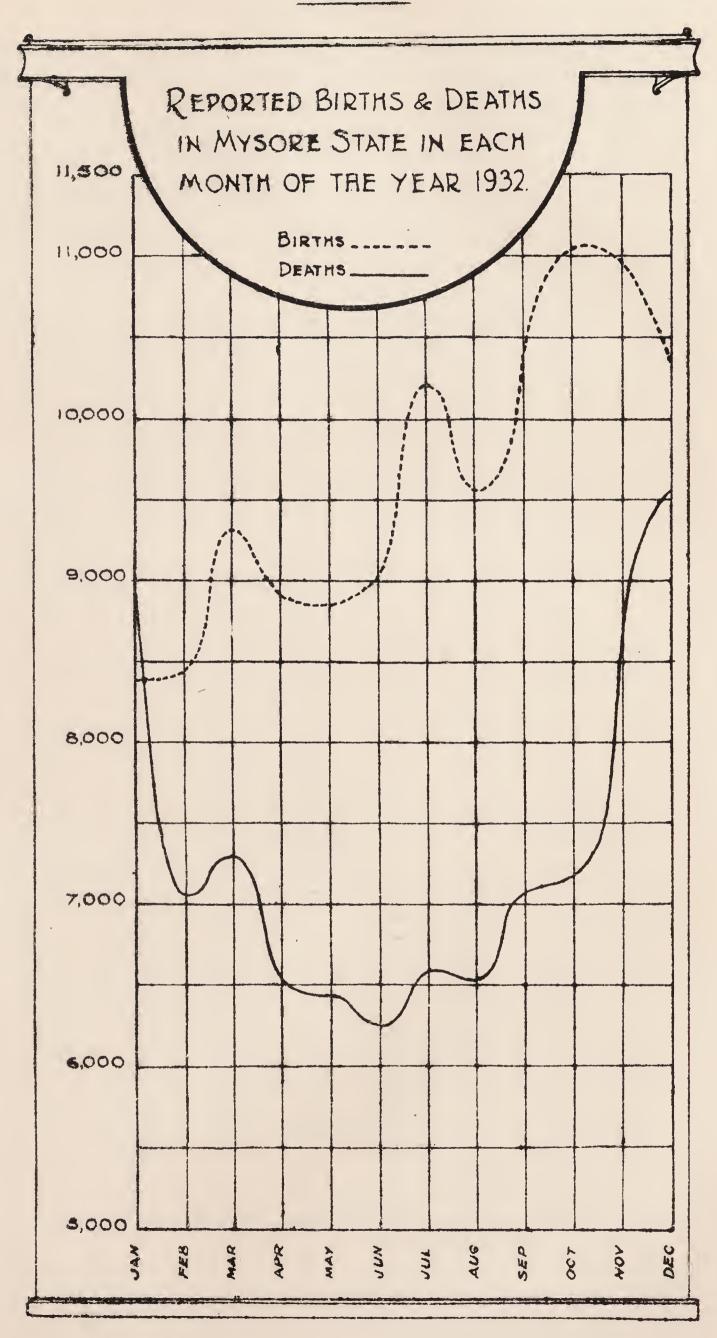
During the year, 88,175 deaths were reported as against 94,265 in 1931, the death, rates in the two years being 13.57 and 14.67 respectively. Assuming the reported figures to be equally significant in the two years considered, it may be stated that there was a fall in the death-rate in the year under review.

Of the 88,175 deaths registered, 45,389 were male and 42,786 female, the ratio of male to female deaths being

106 to 100.

Table 2 gives the recorded deaths in the districts and cities in each month. The maximum number of deaths

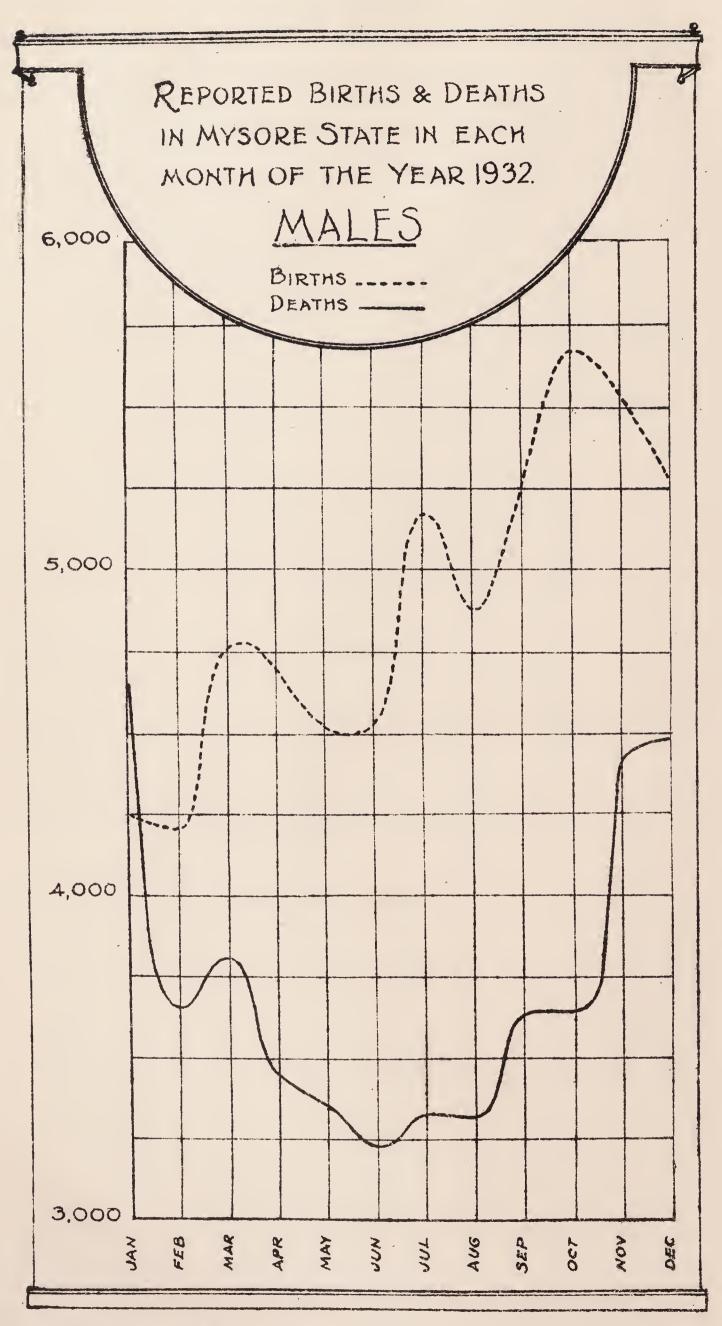
Graph 1.



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(9,533) was reported in December and the minimum (6,213) in June. In the three cities together, 9,923 deaths were reported, the greatest and smallest monthly totals being

1,001 in December and 725 in June.

The death-rates in the districts varied from 1080 in Hassan District to 1587 in Shimoga District. The rates were much higher in City areas. Kolar Gold Field reported the highest rate of 3062, whilst Mysore City recorded the lowest rate of 2380. Bangalore City rate was between these two, being 2619.

In the case of deaths more municipalities have reported fairly reliable figures, 26 out of 106 (or about 25 per cent) having registered death-rates of 20 and over. They

are:

Alur, Belur, Belakavadi, Bowringpet, Chikmagalur, Chintamani, Davangere, Heggaddevankote, Honnali, Hole-Narsipur, Krishnarajpete, Koppa, Madhugiri, Melkote, Mirle, Molakalmuru, Mudgere, Mugur, Narasimharajpur, Nagar, Nelamangala, Periyapatna, Saragur, Sringere, Tarikere and Vadigenahalli.

During the year, an excess (27,452) of births over deaths was reported. In the cities together, it was 2,633. Among districts only, Kadur reported an excess of deaths over births in the annual totals. Among cities, Mysore City reported excess of deaths over births in January,

August and November.

The highest proportionate excess of births over deaths occurred in Tumkur District and the lowest in Hassan District; among cities, the highest occurred in Kolar Gold

Field and the lowest in Mysore City.

Births and deaths reported in each month of the year 1932 are shown in Graph 1. The graph indicates that the incidence of deaths begins to fall continuously from January until June when it is at its lowest and then begins to ascend until December when it is at its maximum. On the other hand, the incidence of births rises from the month of January and has the first peak in March, the next higher peak in July and the next highest peak in October. Thus, in the case of births, three distinct peaks are noticeable. Graph 2 for Males and Graph 3 far Females are almost identical with Graph 1.

The addition to the population by the occurrence of more births than deaths was 4.22 per mille in the State as a whole and 7.22 per mille in the three cities put to-

gether.

Table 3 gives the distribution of deaths among Hindus,

Mussalmans and other classes.

The Age and Sex distribution of reported deaths is shown in Table 4. Assuming that the age distribution of the population remains practically constant from year to year in the inter-censal period, the following differential rates of mortality occurred in the different age groups. In the age period 0-1, in every 1,000 of the population of that age, 62.94 deaths occurred. In the age groups 1-5, 5-10, 10-15, 15-20, 20-30, 30-40, 40-50, 50-60 and 60 and over, the corresponding rates were 14.85, 6.43, 5.12, 8.30, 8.44, 9.91, 12.42, 19.99 and 63.05 respectively. The rates of mortality in the two periods, viz., under one year of age and 60 and over, are almost equal among both males and females. The female death rates are lower than the rates for males except in the age period 5-40, in which period the rates for females are higher than those of males. The difference in the rates is small in the period 5-15 and pronounced in the child bearing period 15-40. significant that the rate of mortality among male infants is much higher than among female infants under one year.

Table 5 gives a comparative statement of births and

deaths from the different diseases listed.

Table 6 gives the same comparative statement for rural and urban areas in the districts and in the State as a whole. It is significant that the urban birth-rate in 1932 was 27.94, whilst the rural birth-rate was only 16.09. The urban and rural death-rates were 19.56 and 12.56 respectively.

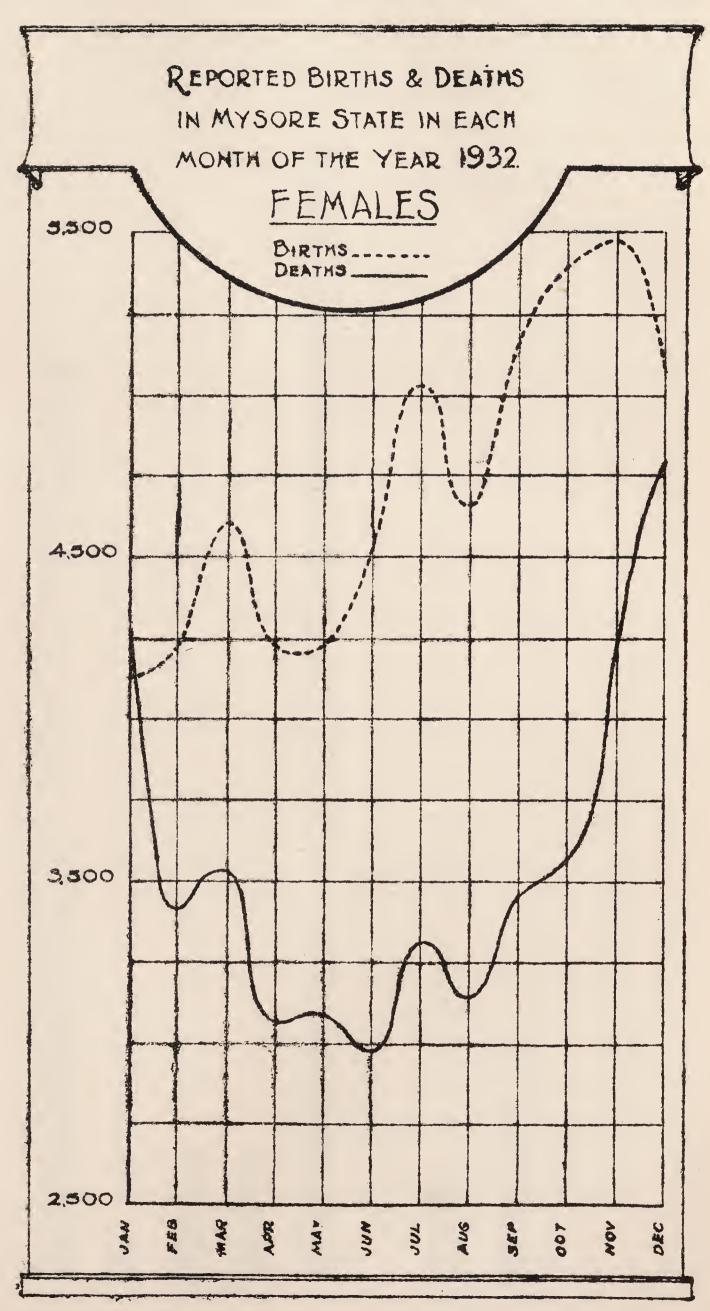
(b) Infant Mortality.

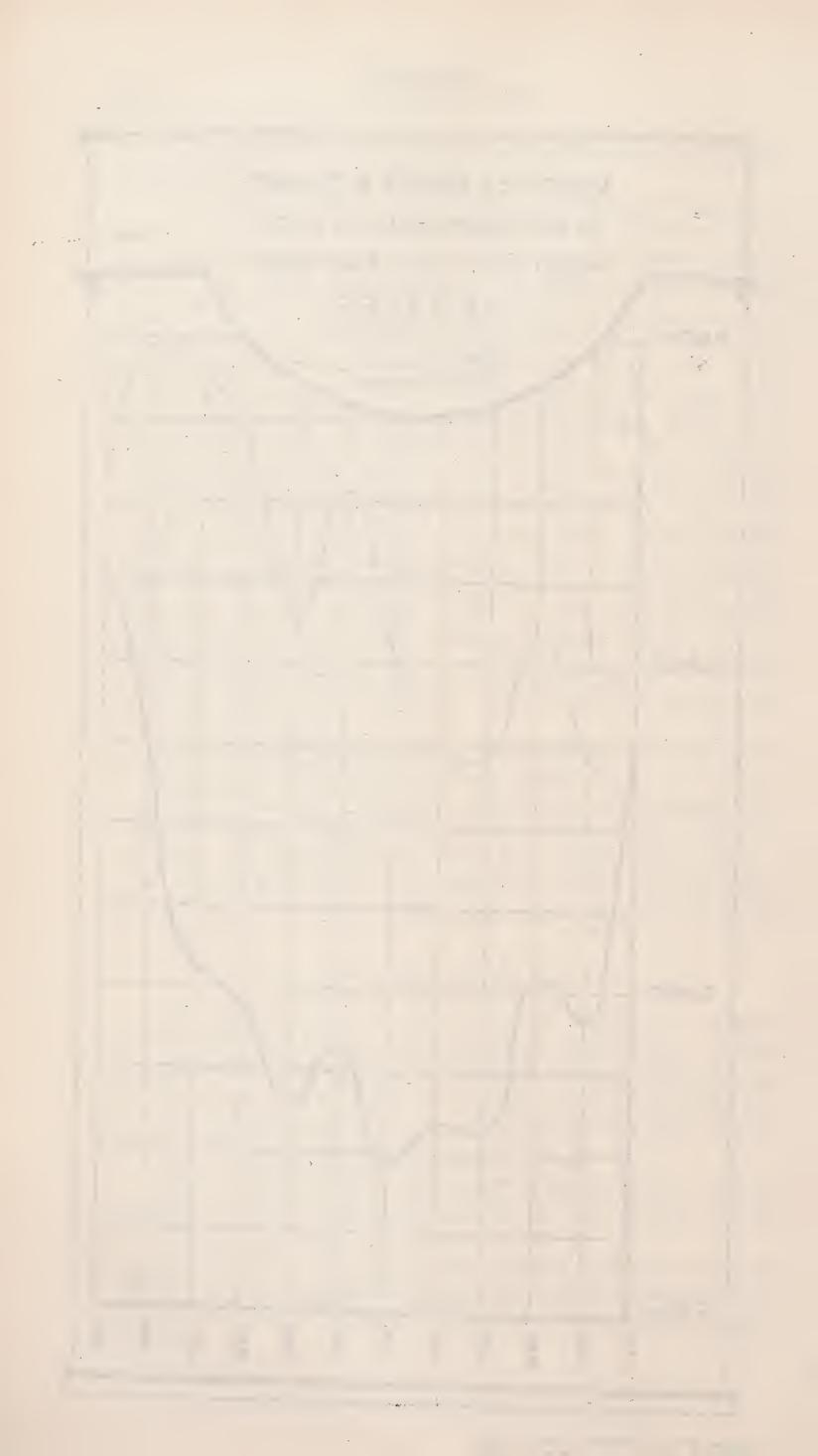
In the year under report, 11,026 deaths of infants under one year of age were reported, yielding an infant mortality rate of 95.36 per thousand births. Particulars of live births and of those born dead are not available and the rate given here is therefore very crude and can be used only for tentative comparisons.

The highest infant mortality rate (116.22) was reported in Kolar District, the lowest (62.67) being recorded

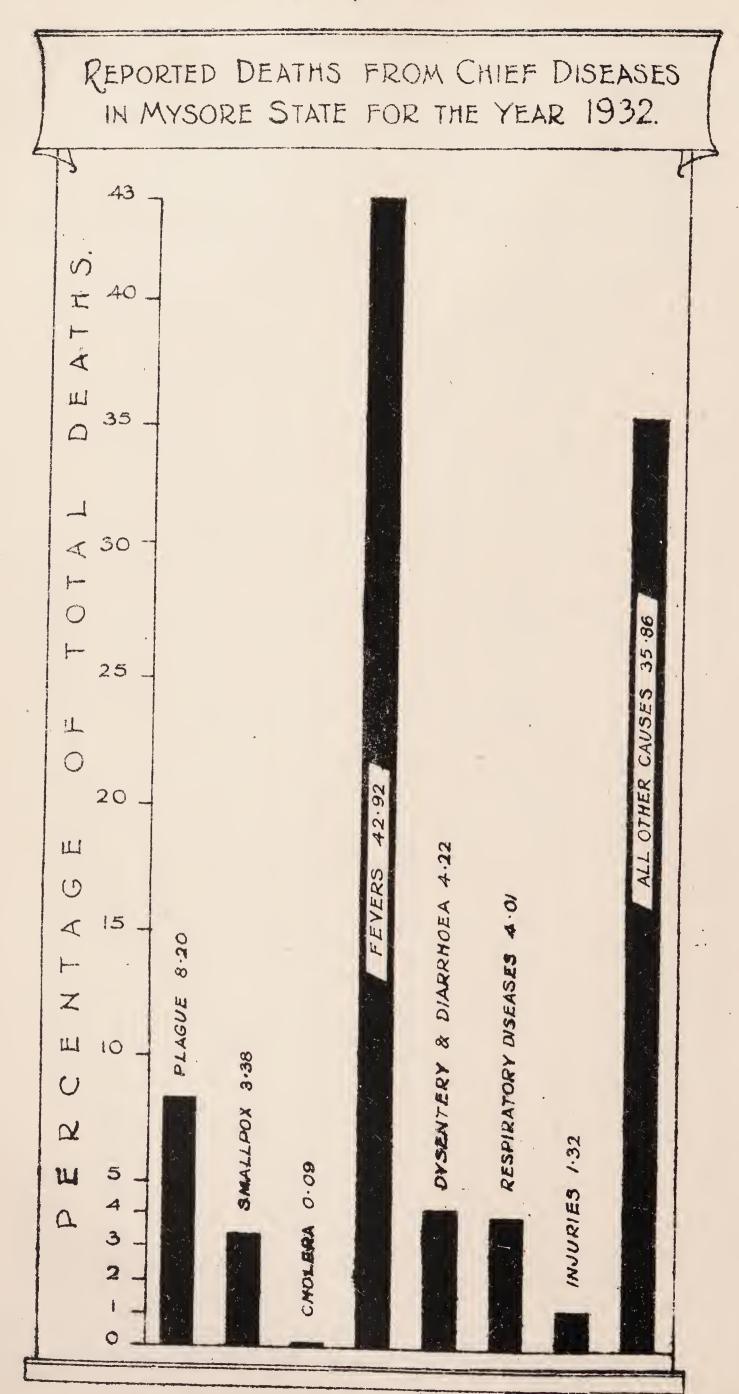
in Mysore District.

In the cities, the rates were higher and as shown in Table 7, Kolar Gold Field reported a rate of 183.60, Mysore City 118.82 and Bangalore City the intermediate rate of 180.13.









(c) Statistical History of Chief Diseases.

Deaths reported in 1932 may be classified under the following 13 heads:—

Cause of Death.			Repo	rted num	ber
•			O,	f Deaths	
Plague				7 ,232	
Small-pox			* •	2,980	
Cholera	• •		9 0	8 3	
Malaria		Unknown	1		
Typhoid		Unknown	1		
Other Fevers	• •			37,842	
Dysentery and Diar	rhoea	• «		3,718	
Respiratory Diseases				3,538	
Consumption		Unknown			
Leprosy		Do			
Child-birth	• •	Do			
Injuries	• •			1,165	
(i) Suicide			175		
(ii) Drowning	a	- • •	Unknown		
(iii) Wounds and	d accident	s ··	821		
(iv) Wild Anima	ls	• •	1 69		
(v) Snake-bite			Unknown		
(vi) Rabies		• •	Do		
All other causes		• •	• •	31,617	
					
	Total (M	ysore Star	te)	88,175	

Graph 4 depicts the relative mortality from these diseases. Tables 8-26 give data in respect of these diseases for each district and city with specific death-rates per 100,000 of population. Tables 27 and 28 give these particulars for each Taluk and Municipality arranged alphabetically, and Tables 29, 30 and 31 give the monthly totals of attacks and deaths from plague, smallpox and cholera for each affected area as per daily returns received in the Bureau of Vital Statistics.

Plague (Table 8).

As indicated on the spot map, plague was in evidence in all the districts. Attacks and deaths were reported practically in all the months of the year. As compared with 5,715 deaths in 1931, 7,232 deaths were reported during the year, of which 3,513 were male and 3,719 female. The highest number of deaths reported was in Mysore District (2,080) and the lowest in Tumkur (369). January and May were the months of highest (1,122) and lowest (159) incidence.

In Bangalore City, 116 deaths were reported and in Mysore City 175, whilst Kolar Gold Field and Civil and

Military Station reported 119 and 101 respectively.

The specific rates of mortality per 100,000 of population are given in Table 8 for each district and city. The order of incidence in the districts was: Bangalore, Mysore, Kadur, Chitaldrug, Kolar, Hassan, Shimoga and Tumkur. In cities, the order was: Mysore City (158.70), Kolar Gold Field (140.40), Civil and Military Station (74.18) and Bangalore City (64.58).

Table 29 gives a list of places affected with plague and Map 1 indicates the geographical distribution of the

disease as per daily returns.

The following Taluks, Cities and Towns reported about 100 or more deaths from plague:—

Taluk or city		Attacks	Deaths	Fatality Rate
Davangere Talúk		606	393	64.86
Shimoga Taluk		319	215	67.40
Mysore City	• •	237	168	70.89
Chamarajnagar Taluk		233	. 150	64.38
Tumkur Taluk		221	137	61.99
TNarsipur Taluk		203	128	63.05
Davangere Town	ø 5	191	125	65.44
Kolar Gold Field	• •	198	121	61.11
Chikmagalur Taluk		188	121	64.36
Bangalore City	• •	133	102	76.69
Chintamani Taluk		155	99	63.87
No company with a second secon				

It will be noticed that the fatality rate for each one

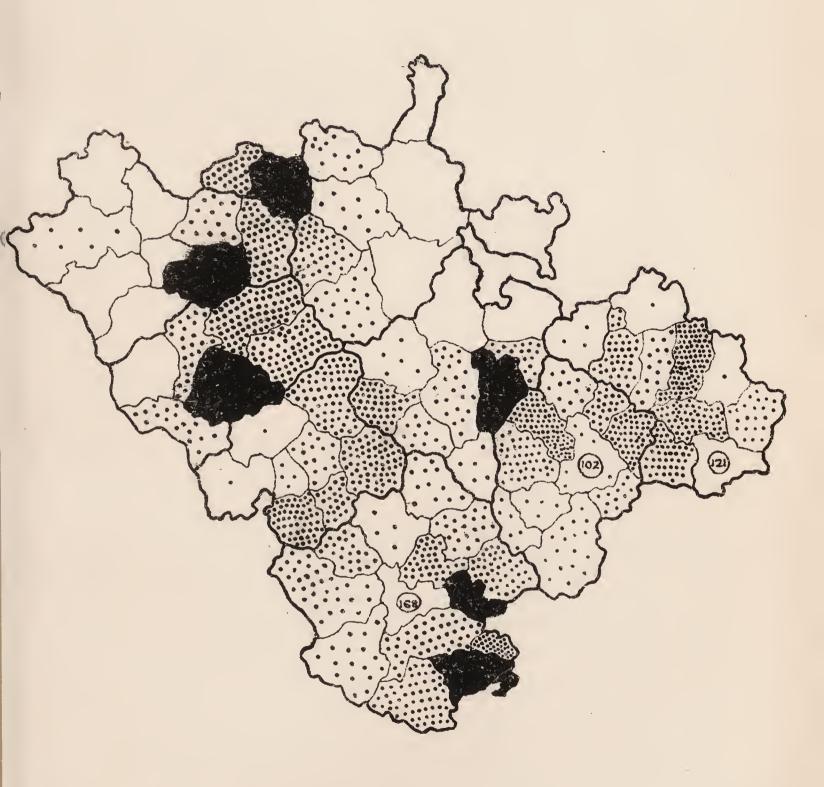
of these areas exceeds 60 per cent.

Graph 5 indicates the relative incidence of attacks and deaths from plague in each month of the year 1932. It shows that plague has the lowest incidence in May and the highest in August. A small drop in October and November is followed by a second rise in December.

MAP1.

- PLAGUE IN MYSORE STATE -

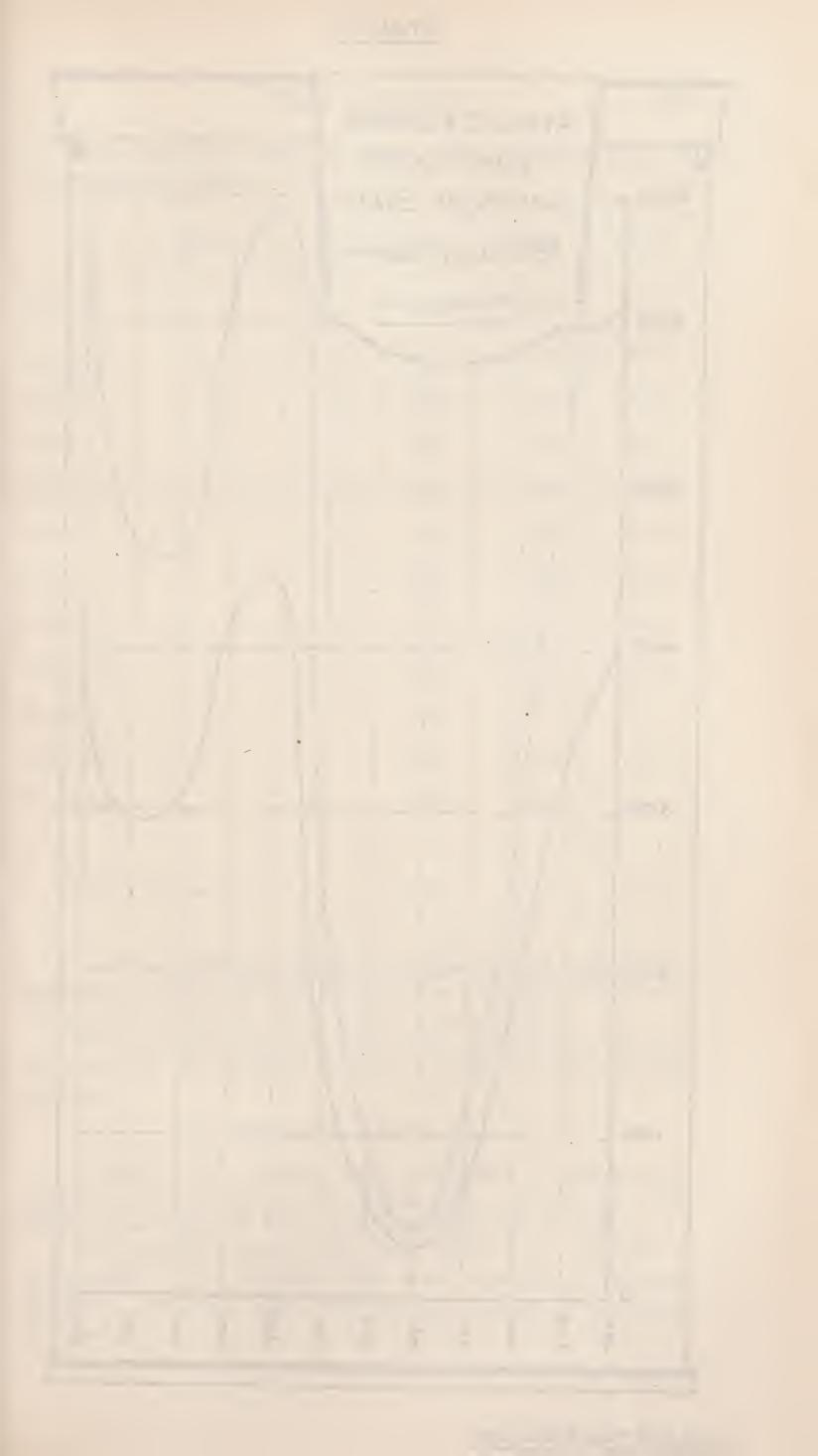
Dot indicates One Reported Death indicates 100 & over Figures indicate Total Deaths in Cities.



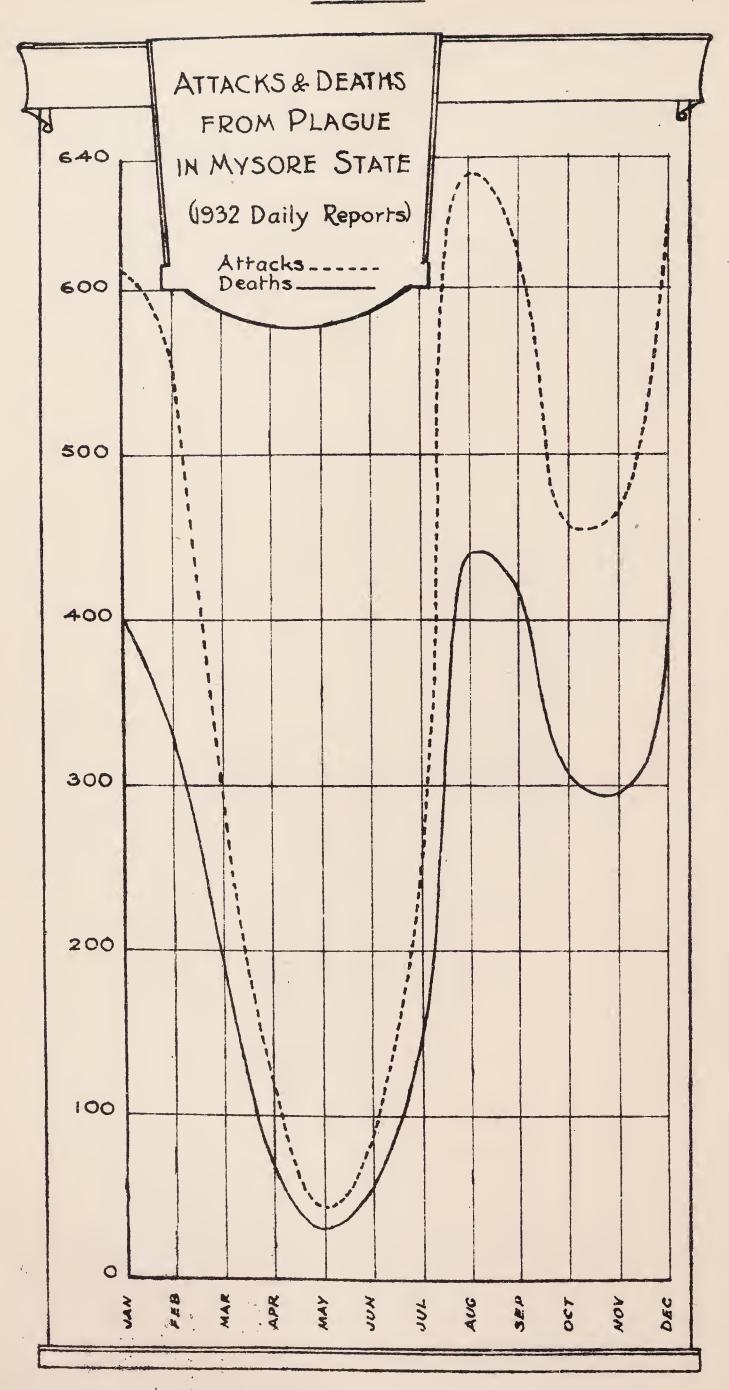
JANUARY 1, TO DECEMBER 31, 1932.

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Graph 5.



The fatality rates as per daily returns may be

computed as follows:—

Moi	ath		Attacks	Deaths	Fatality Rate
January	4	• •	616	400	64.94
February	• •	• •	542	327	60.33
March	• •		320	195	60°94
April	•	• •	120	67	55:83
may		• •	41	28	68.29
June	• •	• •	89	56	62.92
July	• •	• • •	234	163	69.66
August	• •	• • •	671	440	65.57
September	• • •	• •	622	411	66.08
October		•••	453	306	67.55
November	•••	• •	462	294	63 64
December	• •	• • •	647	430	66.46
Total (Mysore	e State)	• •	4,817	3,117	64.71

It will be observed that the fatality rates are almost uniformly similar in each month, the rates lying between 60 and 70, except in April when it was 55.83.

This uniformity is reflected in the death curve (Graph 5) following the attack curve in a more or less regular manner.

Smallpox (Table 9).

Attacks and deaths were reported from all the districts and in each month of the year. A total of 2,980 deaths was reported as compared with 2,296 in 1931.

The specific death-rate was 45.85 per 100,000 of population. The highest rate was reported in Mysore District (105.79) and the lowest (4.96) in Shimoga District.

Bangalore City reported 125 deaths, Mysore City 57, and Kolar Gold Field and Civil and Military Station 13

and 28 respectively.

Table 30 gives a list of places affected with smallpox and Map 2 indicates the geographical distribution of the disease, as per daily returns. Only Bangalore and Mysore Cities reported 50 or more deaths from smallpox in the

year under report.

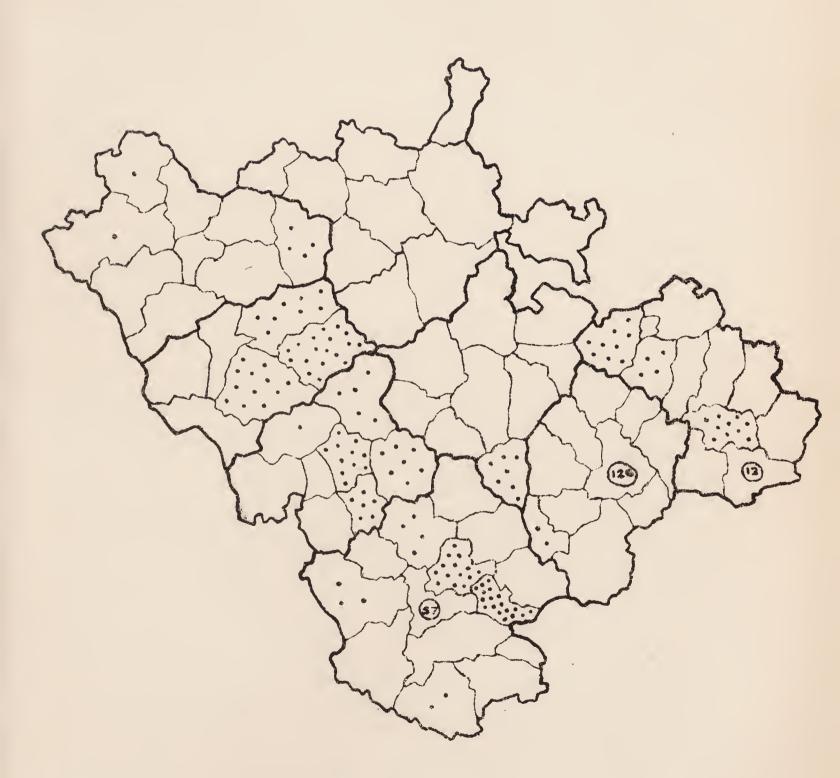
Graph 6 gives the curve of attacks and deaths from smallpox in each month of the year 1932, as per daily returns. There are two distinct peaks in April and August, the death peaks corresponding to the attack peaks. There is, however, a significant difference in the fatality rates at the two peaks, the fatality rates in April and August being 42.26 and 18.47 respectively.

The computed fatality rates are given below:—

	Month		Attacks	Deaths	Fatality rate
January	• •	•	26	12	46.15
February	(1)	• •	71	19	26`76
March	• •	• •	150	27	18.00
April		• •	168	71	42.26
May	• •	• •	110	58	52.73
June	• •	• •	82	35	42.68
July	4 4	• •	121	19	15.70
August	• •	• •	249	46	18'47
September	a •	• •	101	19	18.81
October	• •	• •	31	19	61.29
November	• •	• •	51	14	27.45
December	• •	• •	33	4	12'12
		-			
Total (M	Iysore State)	• •	1,176	343	29'16

MAP 2. - SMALLPOX IN MYSORE STATE -

Dot indicates One Reported Death
Figures indicate Total Deaths in Cities.

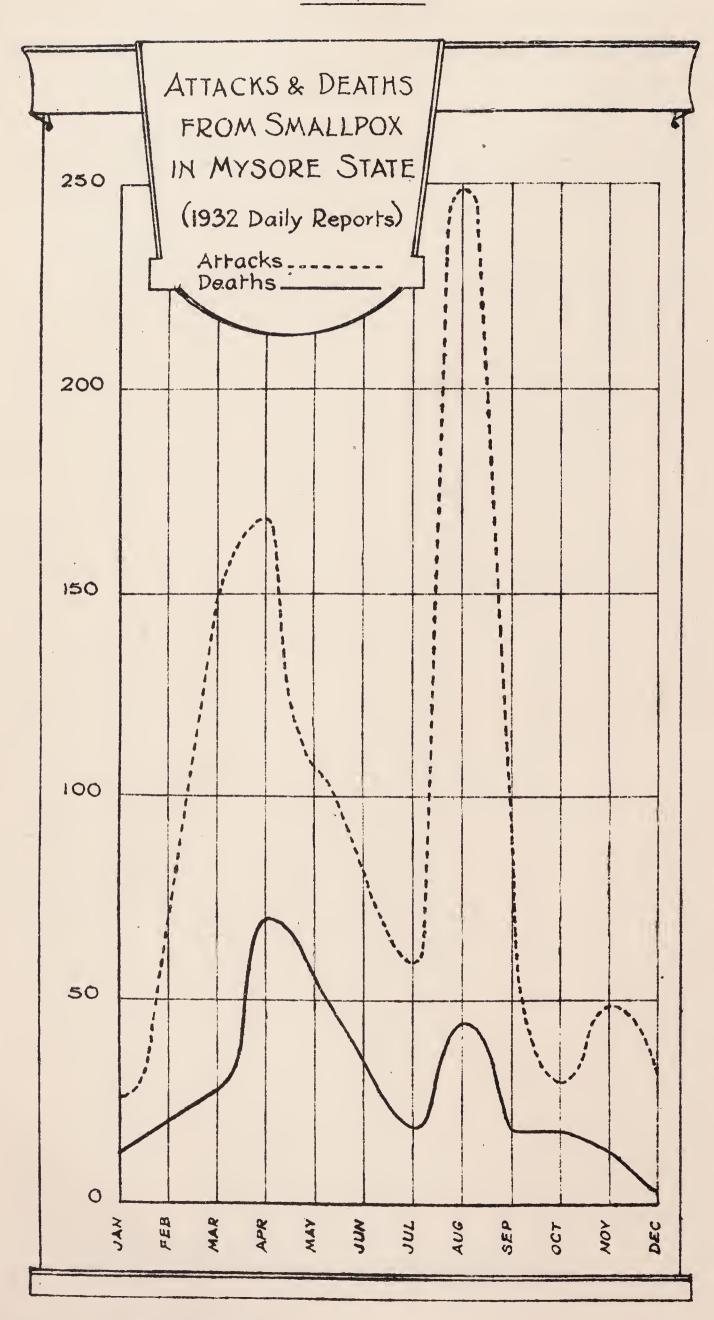


JANUARY 1, TO DECEMBER 31, 1932.





Graph 6.



In contrast to plague, the fatality rates are irregular in the case of smallpox. The figures reported are very few and computed rates have little significance. Assuming them to be correct for the time being, it may be stated that the fatality rate is highest in October and lowest in December.

Cholera (Table 10).

The State was almost entirely free from cholera in the year under report. Eighty-three deaths were recorded or about 1.28 deaths per 100,000 of population. Tumkur and Kolar Districts did not report even a single case of cholera. The highest number reported was 45 deaths, or about 2.95 per 100,000 population, in Mysore District.

Table 31 gives a list of places affected with cholera and Map 3 indicates the geographical distribution of the

disease, as per daily returns.

Of the 83 deaths reported, 50 or about 60 per cent occurred in January and none in August, September and The cities were reported free from this December. disease.

Malaria (Table 11).

Figures included under other Fevers. In the new Death Registers, statistics of deaths from Malaria will be made available.

Typhoid (Table 12).

As in the case of Malaria, figures of deaths from typhoid will be available for study when the new Death Registers come into use.

Other Fevers (Table 13).

It has been the practice to include all fevers under this general head. As this system is of little value to the scientific study of diseases, it has been decided to record the deaths from Malaria and Typhoid separately. figures will be available for study when the new Death

Registers come into general use.

During the year, 37,842 deaths, or 42.92 per cent of all deaths, were reported under this head. The computed rate per 100,000 of population comes to 582.25. highest rate (834.03) was recorded in Kadur District and the lowest 333.66 in Bangalore district. Among cities, the highest rate (591'11) was in Kolar Gold Field and the lowest (197.64) in Bangalore City.

There was more or less uniform incidence in each month of the year. The largest number of deaths was reported in December (4,096) and the lowest number in August (2,500).

Dysentery and Diarrhoea (Table 14).

During the year, 3,718 deaths were reported, 2,064 being male and 1,654 female. Mysore District reported the highest number (1,228) of deaths and Kadur the lowest (125). The incidence was highest in December (433) and lowest in March (210).

Computing rates per 100,000 of population, it is seen that the highest (80.49) and lowest (26.05) rates were recorded in Mysore and Hassan Districts respectively. Kolar Gold Field recorded the highest rate of 353.96 and

Mysore City the lowest rate of 225.80.

Respiratory Diseases (Table 15).

A total of 3,538 deaths was reported in the year under report, 1,922 being male and 1,616 female. Of these, 1,384 deaths (or 39 per cent) were recorded in Bangalore District; and of these, as many as 1,153 (or 83 per cent) were reported in Bangalore City.

In December, the largest number of deaths (368) was recorded, whilst the smallest number (247) was reported

in August.

Comparing rates for 100,000 population, it will be seen that Bangalore District had the highest rate of 125.38, whilst the next highest was as low as 59.53 in Kolar District, the lowest rate being 13.36 in Hassan District.

Bangalore City had the highest rate of 641'91, Kolar Gold Field the next highest rate of 418'85, whilst Mysore

City reported as low a rate as 80.71.

Consumption (Table 16).

It is usual to include this disease under Respiratory Diseases. A separate classification will be made as soon

as returns are made in the new Death Registers.

At the Princess Krishnajammanni's Tuberculosis Sanatorium in Mysore City, 171 new patients were treated during the year, of whom 23 died, 49 got worse, 22 were stationary and 24 quiescent. The disease was arrested in its progress in 53 cases.

MAP 3.

- CHOLERA IN MYSORE STATE -

Dot indicates One Reported Death



JANUARY 1, TO DECEMBER 31, 1932.

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Leprosy (Table 17).

In the revised forms of Death Registers, a new column has been added for entering particulars of deaths from leprosy in rural and urban areas. At the present time, all that is known about the geographical or quantitative distribution of this disease is mainly in respect of the in-patients at the Leper Asylum, Bangalore, and in some of the Epidemic Diseases Hospitals. A few years ago, an investigation into the incidence of leprosy was made in Mandya and Malvalli Taluks, but unless extensive investigations are made in a scientific manner, the real position with regard to this disease will remain unknown.

At the Leper Asylum, Bangalore, 169 patients were treated of whom 129 were male, 36 female and 6 children. Eight patients died during the year and 17 discharged.

Of the 98 new admissions, 66 were Mysoreans and 32 non-Mysoreans; 89 were voluntary admissions, whilst 5 were sent by the Inspector of Lepers and 4 by the Health Officer, Civil and Military Station, Bangalore.

Ten cases were treated in the Mysore Epidemic Diseases Hospital, of whom one died during the year.

Child-birth (Table 18).

As in the case of Rabies, figures of deaths from child-birth are available only in the Institutions listed in the following statement. In the year under report, 6,257 labour cases were conducted in the Maternity Hospitals and 108 maternal deaths were reported. Some of the more important causes of death are listed below:—

Cause of Death.			No. of $Deaths$.	Percentage of Total.
(1) Anæmia	• • •		32	29.6
(2) Sepsis	• • •	• • •	9	8.3
(3) Heart Disease		• • •	9	8.3
(4) Difficult labour	• • •	• • •	7	6.5
(5) Eclampsia	0 0 0		6	5.6
(6) Diarrhoea	• • •		5	4.6
(7) Pneumonia			5	4.6
	Total	•••	73	67.5

It will be seen that 67.5 per cent (or two-thirds) of deaths from child-birth are due to the seven causes listed above. Under-feeding, poverty and over-exertion during the later stages of pregnancy and improper care before admission into hospitals appear to be largely responsible for this.

The following statement gives the statistics of labour cases conducted and the causes of death from child-birth in the different hospitals and dispensaries in Mysore State.

Statistics of Labour Cases conducted and the Causes of Death from Child-birth in the different Hospitals and Dispensaries in Mysore State in the year 1932.

Name of Institution Name of I		Post Partum Hæmorrhage Payemia Typhoid	
Maternity Hospital Bangalore Vain/Huttien Do Christolic Maternity Ward, Chr			
Maternity Hospital Bangalore of Institution Name of Institution Name of Institution Name of Institution National Hospital Bangalore Vaning Hospital Bangalore Valua Hospi			
Name of Institution Name of Institution Name of Institution Name of Institution Noshidal Bangalove Vanivitis Hospital Ban			
Name of Institution Name of I			
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Assuming for the moment that the statistics given in the preceding statement is really representative of the whole State it may be stated that the maternal mortality in 1932 was 17.26 per thousand births.

Injuries (Table 19).

Of the total of 1,165 deaths from injuries, 675 were male and 490 female. The Cities reported as many as 191 deaths, 115 (or 60 per cent) being registered in Kolar Gold Field. It may be remarked however, that in Mysore City only three deaths were reported as due to injuries. Bangalore City reported 73 deaths, 46 male and 27 female.

Classified by months August had the highest (117) total of deaths from injuries and January the least (66).

Comparing the rates per 1,00,000 of the population it is seen that the highest rate (35.84) was in Kolar District and lowest (11.80) in Mysore District. The rates in the Cities were in order Kolar Gold Field (135.69), Bangalore (40.64), C. and M. Station (32.31) and Mysore (2.72).

Suicide (Table 20).

During the year 175 suicides, (86 male and 89 female) were reported. Of these, one suicide was reported in Bangalore City, one in Mysore City and two in Kolar Gold Field. The largest number reported, viz., 23 was in December, the next largest being 22 in October.

Drowning (Table 21).

Figures included under Wounds and Accidents. In the new Death Registers particulars of deaths from drowning will be made available.

Wounds and Accidents (Table 22).

A total of 821 deaths was reported as due to wounds and accidents. Of these, 69 deaths occurred in Bangalore City, 111 in Kolar Gold Field and only one in Mysore City.

Wild Beasts (Table 23).

Monthwar figures of 169 deaths caused by wild beasts are given in Table 23. These figures include also the deaths from snake-bites. Deaths reported from this cause in Bangalore City were three, in Kolar Gold Field two, and one in Mysore City.

Snake-bite (Table 24).

Figures included under deaths caused by wild beasts. Separate figures will be available for study in the new Death Registers.

Rabies (Table 25).

In the new Death Registers it is also proposed to collect data in respect of deaths from Rabies in all urban and rural areas. The following statistics refer to 752 treatments for rabies in the Institutions listed:—

Institutions.	Na	umber treated.
(1) Victoria Hospital, Bangalore		356
(2) Krishnarajendra Hospital, Mysore	* * *	341
(3) District Hospital, Chikmagalur	• • •	20
(4) District Hospital, Chitaldrug	• • •	6
(5) Civil Hospital, Kolar	•••	29
(6) Civil Hospital, Kolar Gold Field	0 0 0	Nil.
Total	•••	752

All Other Causes (Table 26).

Under this general head, 31,617 deaths have been lumped together without specifying the cause of death. It has become increasingly necessary to open a new Table to record the differences in the percentages these figures bear to total deaths in each district and city. Table 26 indicates that approximately 36 per cent of all deaths reported in 1932 were not classified at all. In Bangalore District, the percentage was as high as 44, the lowest being 25 in Hassan District.

In city areas 53 per cent of deaths were unclassified indicating that the practice of reporting deaths without classifying them are popular. Mysore City tops the list, having reported 63 per cent of all reported deaths unclassified. Bangalore City comes next with 52 per cent. In Kolar Gold Field it was 46 per cent.

TABLE 1.

Reported Births in the Districts and Cities in each month of the year 1932.

Returns.)
Monthly
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As

Birth-rate	20.34	19.47	11.36	14.31	20.8 6	15.77
Born dead		je.	dsli s vs :	jou səan!	giA	
Byils aroll		*Ə	[dslisvs	jou səin.	giA	
Total (Reported	11,257	6, 5 80	3,513	2,5 8 0	8,940	12,395
	11,195	6,420	3,288	2,422	8,922	11,666
	22,452	13,000	6,801	5,002	17,862	24,061
Де сешрет.	970	542	442	271	677	1,156
	967	551	362	252	708	1,071
	1,987	1,093	804	523	1,385	2,227
Лоvеmbег	1,014	638	375	247	844	1,244
	1,056	637	395	203	901	1,164
	2,070	1,275	770	450	1,745	2,408
Осторег	1,081 1,038 2,119	616 537 1,153	366 312 678	221 442	978 978 1,956	1,159 1,114 2,273
September	981	530	325	226	918	1,063
	1,061	527	325	203	951	923
	2,042	1,057	684	429	1,869	1,986
tsugu A	970 9 62 1,932	581 576 1,157	152 116 268	216 200 416	868 811 1,679	953 980 1,883
July	974	642	113	226	913	1,028
	977	620	135	231	833	987
	1,951	1,262	248	457	1,746	2,015
oung	874	520	288	154	680	959
	843	521	278	17 4	783	932
	1,717	1,041	566	328	1,463	1,891
May	818	514	270	233	652	1,010
	849	481	269	211	646	902
	1,667	995	539	444	1,298	1,912
firqA	1,005	548	219	197	655	969
	906	491	227	153	5 64	903
	1,911	1,03 9	446	350	1,219	1,872
Матср	902 919 1,821	50 0 534 1,03 4	327 2 5 2 579	224 197 421	629 582 1,211	991 932 1,923
H.epruary	871	491	29 5	147	544	921
	825	50 6	29 8	168	571	890
	1,69 6	996	593	315	1,115	1,811
January	797 792 1,589	458 440 898	307 319 626	218 209 427	582 594 1,176	942 918 1,860
District	lore Male Female Total	drug Male Female Total	n Male Female Total	Male Female Total	Male Female Total	Emale Female Total
	Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore

18.69	19.08	17.79		33.50	25.11	44.47	39.45	
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4,939 4,848 9,787	8,574 8,088 16,662	58,778 56,849 1,15,627		2,951 3,067 6,018	1,469 1,300 2,769	1,893 1,876 3,769	2,761 2,611 5,372	
428 419 847	797 739 1,536	5,283 5,069 10,352		262 282 544	139 106 2 45	187 172 359	2 6 8 256 514	
412 430 842	768 685 1,453	5,542 5,471 11,013		226 230 456	142 128 270	161 184 345	236 234 470	
422 374 796	826 811 1,637	5,669 5,3 85 11,054		210 218 428	140 120 260	174 189 36 3	248 254 502	
396 415 811	778 752 1,530	5,251 5,157 10,408		219 227 446	151 120 271	181 175 356	257 211 468	
439 410 849	706 647 1,353	4,885 4,652 9,537		220 232 452	103 96 199	181 168 349	280 23 5 515	
464 489 953	835 757 1,592	5,195 5,029 10,224		235 265 500	121 112 235	184 172 356	238 214 452	
402 41 4 816	654 585 1,239	4,531 4,530 9,061		22 5 234 459	90 86 176	163 166 329	198 178 376	
423 404 827	612 570 1,182	4,532 4,332 8,864		224 745 469	104 107 211	129 147 276	189 202 391	
422 354 776	664 634 1,298	4,699 4,23 2 8,911		371 345 716	102 94 196	147 115 262	176 174 350	galore.
48 5 526 1,011	690 668 1,358	4,748 4,610 9,358		311 318 629	144 112 256	149 109 258	254 223 477	Station, Bangalore.
286 267 553	660 701 1,361	4,215 4,225 8,440		250 262 512	111 104 21 5	115 117 232	213 218 431	
346 346 706	584 539 1,123	4,248 4,157 8,405		198 2 09 407	122 11 5 237	122 162 284	214 212 426	g C. and M.
: : :	: : :	:::		::::	: : :	: : :	: : :	Excluding
Male Female Total	Male Female Total	Male Female Total		Male Female Total	Male Female Total	Male Female Total	Male Female Total	* Exc
Shimoga	Tumkur	Total (Mysore State).*		Bangalore City	Mysore City	Kolar Gold Field.	C. and M. Station.	

* Excluding C. and M. Station, Bangalore.

Reported Deaths in the Districts and Cities in each month of the year 1932. TABLE 2.

	1	ţ							
	Death	13.06	4.47	10.80	15.40	15.82	13.27	15.87	
	Total	7,314 7,098 14,412	4,980 4,688 9,663	3,184 6,463	2,794 2,589 5,383	7,069 6,480 13,549	10,30 5 9,935 20,240	4,296 4,016 8,312	
	Decemper	751 695 1,446	657 668 1,325	358 386. 744	288 301 584	582 559 1,141	1,001 1,114 2,115	582 568 1,150	
	Лочешьег	637 610 1,247	532 577 1,109	933 343 676	273 224 497	579 517 1,096	1,121 1,036 2,157	468 487 950	
•	төботоО	560 570 1,130	445 462 907	258 258 516	210 189 399	585 584 1,069	875 817 1,692	350 342 692	es.
	September	566 608 1,174	411 391 802	310 260 570	204 219 423	566 528 1,094	860 817 1,677	334 294 628	
	4su3u A	560 5 6 2 1,112	413 360 773	118 102 220	184 176 360	544 507 1,051	854 831 1,685	334 278 612	
ly Returns.)	July	596 639 1,235	288 289 577	115 112 227	196 172 368	567 509 1,076	849 863 1,712	335 298 63 4	
thlyR	Эпп-	560 498 1,0 5 8	266 249 515	279 2 62 541	182 173 355	5 30 468 998	757 736 1,493	253 240 493	
Mon	May	543 514 1,057	344 284 628	284 2 9 2 576	226 193 419	513 467 980	773 722 1,495	248 248 519	
(As per Month	firqA	561 515 1.076	432 350 782	230 220 450	201 173 374	560 528 1,088	729 670 1,399	285 239 524	
7)	Магећ	613 554 1,1 6 7	422 372 794	324 282 606	239. 213 45 2	630 562 1,192	757 710 1,467	367 382 749	
	February	629 598 1,222	347 309 656	305 235 590	293 251 544	627 576 1,203	756 732 1,488	237 233 470	
	January	738 750 1,488	423 372 795	365 382 747	303 305 608	836 725 1,561	973 887 1,860	484 407 891	
		* * *	: : :	:::	• • •	• • •	* * *	: : :	-
4	District	Male Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total	Male Female Total	
		Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	

11.63	57	61.97	08.	29	28.52
11.	13.57	- 56.	23.80	30.62	28-
5,352	45,389	2,380	1,286	1,459	1,933
4,801	42,786	2,324	1,338	1,136	1,951
10,153	88,175	4,704	2,624	2,595	3,884
525	4,739	270	104	149	175
503	4,794	231	132	115	192
1,028	9,533	501	236	264	367
470	4,408	226	147	106	160
420	4,214	217	139	78	179
890	8,622	443	286	184	339
416	3,649	197	119	103	169
390	3,562	200	125	84	164
806	7,211	397	244	187	383
392	3,643	176	115	126	175
340	3,457	186	115	104	158
732	7,100	362	230	230	333
390	3,397	185	109	127	162
338	3,144	187	103	104	142
728	6,541	372	212	231	354
389	3,336	189	95	124	158
386	3,268	194	117	101	159
775	6,604	383	212	225	317
414	3,241	192	79	110	154
346	2,972	176	83	85	146
760	6,213	368	162	195	300
416	3,370	209	100	108	123
3 5 9	3,079	216	95	94	143
775	6,449	425	195	202	266
456	3,454	210	99	108	128
370	3,065	177	93	86	132
826	6,519	387	192	1 9 4	260
468	3,520	186	105	128	14 3
4 5 4	3,529	194	109	84	1 5 3
922	7,349	380	214	212	296
475	3,669	170	101	130	179
431	3,410	169	95	89	167
906	7,079	339	196	219	346
541	4,663	170	113	140	207
464.	4,292	177	132	112	166
1,005	8,95 5	347	245	252	373
:::		* 0 07 0 8 8 0 0			
Male	;e)* Male	Male	Male	Male	Male
Female	Female	Female	Female	Female	Female
Total	Total	Total	Total	Total	Total
Tumkur	Total (Mysore State)* Male Female Total	Bangalore City	Mysore City	Kolar Gold Field.	C. & M. Station

* Excluding C. & M. Station, Bangalore.

TABLE 3.

District Bangalore Chitaldrug Hassan		:		}	1	,		6	Г			1	
Distri		Estimate	Estimated Population as on July	n as on Ju	ıly 1, 1932	Num	Number of Deaths	ths Registered	tered	U	Rates per 1	1,000 of Pc	Population
ore		stentlesuM	anbaiH	Other Classes	IstoT	susmissuM	subniH	Other Classes	[sto'I]	snsnilssnM	subniH	Other Classes	fstoT
lrug		81,584	999,874	22,197	1,103,831	985	13,077	350	14,412	12.07	13.09	15.77	13.06
	:	37,667	626,280	3,745	667,690	495	8,948	220	9,633	13.14	14.29	58.74	14.47
	:	21,813	160,693	7,785	598,689	377	5,910	176	6,463	17.28	10.38	22.61	10.80
	•	19,627	321,810	8,190	349,628	412	4,487	184	5,383	66.07	13.94	59.10	15.40
Kolar	*	66,794	764,515	25,381	856,690	1,050	10,977	1,522	13,549	15.72	14.36	59.97	15 82
Mysore	•	69,308	1,445,810	17,559	(1,525,679	896	19,147	125	20,240	13.97	13.24	7.12	18.27
Shimoga	:	41,641	465,994	14,975	523,690	488	7,612	212	8,312	11.72	16.33	14.16	15.87
Tumkur	•	45,265	817,743	10,314	873,322	854	9,754	45	10,153	7-82	11.93	4.36	11.63
Total (Mysore State)*	.e)*	3,77,376	6,012,911	110,146	6,499,218	5,129	79,912	3,134	88,175	13.59	13.29	28.45	13.57
Bangalore City	•	20,738	150,649	8,232	179,620	574	3,963	167	4,704	27.68	26.91	50.29	26.19
Mysore City	:	18,314	87,236	4,721	110,273	578	1,988	63	2,624	31.56	22.73	13.34	23.80
Kolar Gold Field	:	6,712	61,705	16,340	84,755	237	1,755	809	2,595	35.31	28.44	96.50	30.62
C. & M. Station	:	29,104	75,075	31,981	136,162	2,185	1,032	299	3,884	75.08	13.75	20.86	28.52

*Excluding C. & M. Station, Bangalore.

TABLE 4.

Deaths reported in Districts and Cities classified according to Age and Sex in the year 1932.

	J						0	0				
	District	Under one year	One year to five years	5—10	10—15	15-20	20—30	30—40	40—50	50—60	66 and over	Total
Bangalore	Male	1,197	1,087	449	364	362	591	5 69	534	489	1,672	7,314
	Female	1,028	1,040	428	354	493	76 4	586	454	429	1,522	7,09 8
	Total	2,225	2,127	877	718	855	1,355	1,15 5	988	918	3,19 4	14,412
Chitaldrug	Male	601	662	322	241	292	490	511	409	395	1,047	4,970
	Female	524	622	360	251	358	703	481	343	3 02	739	4,688
	Total	1,125	1,284	682	4 92	650	1,193	992	752	697	1,786	9,653
Hassan	Male	370	361	203	169	184	398	412	348	281	558	3,279
	Female	378	299	211	168	207	479	415	265	232	530	3,184
	Total	748	660	414	337	391	877	827	613	513	1,083	6,463
Kadur	Male	314	255	190	137	170	304	427	383	274	340	2,794
	Female	262	290	175	128	181	463	35 4	244	182	810	2,589
	Total	576	545	365	265	351	767	781	627	456	650	5,883
Kolar	Male Female Total	1,073	954 817 1,771	354 380 734	250 275 525	254 357 611	567 632 1,199	577 563 1,140	569 446 1,015	566 410 976	1,905 1,597 3,502	7,069 6,480 13,549
Mysore	Male	823	1,429	789	587	535	986	1,156	1,037	871	2,142	10,305
	Female	685	1,492	805	519	657	1,309	978	772	761	1,957	9,93 5
	Total	1,508	2,921	1,594	1,056	1,192	2,295	2,134	1,809	1,632	4 ,099	20, 24 0
Shimoga	Male	567	475	231	191	202	498	627	487	399	619	4,296
	Female	539	465	246	175	283	630	496	338	302	5 4 2	4,016
	Total	1,106	940	477	366	485	1,128	1,123	825	701	1.161	8,312
										-		

Table 4—concld.

	$\begin{array}{c c} 50-60 & 60 \text{ and} & \text{Total} \\ \hline \end{array}$	512 1,554 5,352 392 1,213 4,801 904 2,767 10,153	3,787 9,832 45,389 3,010 8,410 42,786 6,797 18,242 88,17 5	176,918 150,196 3,324,916 163,094 139,127 3,174,302 289,323 6,499,218	21.40 65.46 13.65 18.45 60.45 13.48 19.99 63.05 13.57	3 126 324 2,324 3 279 669 4,704	109 284 1,286 73 213 1,338 182 447 2,624	98 202 1,460 40 206 1,135 138 408 2,595	:	:::
	30-40 40-50	392 . 390 410 311 802 701	4,671 4,157 4,283 3,173 8,954 7,330	486,583 330,035 416,804 260,129 903,387 590,164	9.60 12.60 10.28 12.20 9.91 12.42	184 156 171 103 355 2 5 9	152 139 132 97 284 236	140 128 64 50 204 17 8	:	
	15-20 20-30	213 3 5 3 266 558 47 9 911	2,212 4,187 2,802 5,538 5,014 9,725	305,411 561,603 298,690 590,098 604,151 1,151,701	7.24 7.46 9.38 9.38 8.30 8.44	1112 197 177 21 5 289 412	43 131 93 218 136 349	41 166 36 88 77 254		::
+ 0100 +	0 10-15	234 213 219 187 453 400	82 2,102 24 2,057 06 4,159	418,413 393,361 811,774	6 38 5.02 6 49 5.23 6.43 5.12	130 90 128 98 253 188	81 44 93 73 179 117	39 38 59 3 8 98 71	di-maga e yangga gari -a mi	: :
	One yerr 5-10 years	570 504 1,074	5,793 2,782 5,529 2,824 11,322 5,606	373,936 435,804 388,336 435,448 762,272 871,252	15·49 6 14·24 6 14·8 6	437 1 481 918	176 189 365	260 220 480		: :
	Under one year	921 741 1,662	5,865 5,160 11,026	86,015 89,175 175,190	68.20 57.86 62.94	576 508 1,084	177 152 329	358 334 692		• • •
	District	Tumkur Male Female Total	Total (Mysore State)* Male Female Total	Estimated Population Male in 1932.* Female Total	Death rates in each Male age group. Female Total	Bangalore City Male Female Total	Mysore City Male Female Total	Kolar Gold Field Male Female Total	Civil and Military Male	

* Excluding Civil and Military Station, Bangalore.

Statistics of Births and Deaths from different diseases among Males and Females in Mysore State in the year 1932. TABLE 5.

peg			12·99 13·19	13.06	14.54 14.40	14.47	10.86	10.80	15.05	15.40
l Repor Deaths		Death R	12	<u> </u>	41.	14	1001	10	15	15
Total Reported Deaths		fstoT	7,314	14,412	4,980	9,663	3,279	6,463	2,589	5,383
sə	suaO 1	All othe	3,242	6,356	1,478	2,875	776	1,589	743	1,531
	911	Snake-b Rabies					igures no igures no			
beasts		Killed b	15 5	20	1 21 00	10	0.4	<u> </u>	10	91
estidents	A bus	spunoW	105	171	88 89 50 70	89	23	54	118	29
	St	ninword		1	lable.	isve to	igures no	<u>H</u>	1	(
		Suicide	112	23	800	17	10	14	2 ::	-
		Leprosy id-blidO					igures no			
		Consum		(.able.	lisva to	igures no		1	1
səasəsi	tory D	Respira	669	1,384	149 150	249	48 32	08	109	175
E		Dysente Distrh	871 345	716	145	264	99	156	82 43	125
	evers	Other F	1,915	3,683	2,632 2,471	5,103	1,984	3,815	1,533	2,916
	I	Typhoio	• •		: : :	:	::			:
		syslodO sirslsM	4.2	9	ilabe.	EVE TOI	्र त eəruyi	-1	1 1 2 1	90
	XO	d-lism2	212	438	130	248	48	105	63	144
		Plague	766 849	1,615	387 424	811	286 344	630	228 209	437
ted	ate	A diria	19.99 20 .8 0	20.34	19.22	19.47	11.64	11.36	13.89	14.91
Total Reported Births	8	Born			.bld.	silsva	tou seans	ुःस		
Total I	Births	Born	11,257	22,452	6,580	13,000	3,513 3,288	6,801	2,580	2,002
Name of the second seco			• •	:	: ;	:	• • •	•		:
	Sex		Males Fem a les	Total	Males Females	Total	Males Females	Total	Males Females	Total
noitsInc	ed Pol	dsmitsA S861 ni	565,707 5 38,124	1,103,831	342,432 3 2 5,258	667,690	301,892 296,795	598,687	185,708 163,920	849,628
	1.7		:		:		•		• •	
	District		Bangalore		Chitaldrug		Hassan		Kadur	

concld.	
5.	,
TABLE	

1 -	1					2	1 6 1		1 2 1	1 30	7807
eported	91s.	Death R	16.31	15.82	13.41	13.27	15.49 16.31	15.87	12.02	11.63	13.65 13.48 13.57
Total Reported Deaths		IstoT	7,069 6,480	13,549	10, 305 9,935	20,240	4,296	8,312	5,352 4,801	10,153	4 5 ,389 42,786 88,175
Se	enso 1	əd t o IIA	2,871	5,636	3,178	6,478	1,611	3,212	2,022	3,940	15,921 15,696 31,617
and managed to the state of the		Rabies					eve ton s ere tou				
SISRAG		Killed b	21 10	31	26	88	ω το	13	13	23	114 55 169
staebioo		maker - sur-qualitative account or appointmental designation of the contract o	153	235	10 to	100	26 24	50	56	114	469 1 352 821 1
staobioo		Drowni	-	िं			svs ton			<u> </u>	4000
		Suicide	17	#	19	42	m 00	11	10	020	86 89 175
		Child-bi					sys ton s				
		Consum Leprosy					BVB fort				
Sesses	tory Di	Respira	298	510	282	508	153	231	214	401	1,922 1,616 3,538
1	угу апд жа	Уузепте ПитгіП	330 226	556	675	1,228	205	384	166	289	2,064 1,654 3,718
***	SIOVE	H radtO	2,762	6 ,289	4,246	8,107	2,074	3,997	2,660	4,932	19,809 18,033 37,842
		pioddy',		:	1 ::	:	s not ava	: Ingr	: :	1 :	1 :::
		Stalena SiralaM		:	28	134	70 41	6. (1 :	49 83 83
	χo	g-llsm2	175 165	340	774	1,614	12	56	28	65	1,442 1,538 2,980
		Plague	442	911	1,022	2,080	199	379	183	369	3,513 2,719 7,232
bed	ete	H divid	20.40	20.85	16.13	12.41	17.81	18.69	19·26 18·89	19.08	17.68 17.91 17.79
Total Reported Births	38	Born				.əldsli	EVE fon	səangif	I.		
Total Bi	Births	Born	8,940 8,92 2	17,862	12,395 11,666	24,061	4,939	9,787	8,57 4 8,088	16,662	58,778 56,849 115,627
				*	::	:_	: :	:			: : :
	Sex		Males Females	Total	Males Females	Total	Male s Females	Total	Males Females	Total	Males Females Total
noitslu	do ₄ pə	tsmitaH S891 ni	438,275 418,41 6	856,690	768,39 6 757,283	1,525,679	277,389 246,301	523,690	445,117	873,322	3,324,916 3,174,302 6,499,218
	District		Kolar		Mysore		Shimoga		Tumkur		Mysore State

Statistics of Births and Deaths from different diseases in Urban and Rural Areas of Mysore State in the year 1932. TABLE 6.

* These figures include deaths from Snake-bite.

TABLE 7.

Reported Deaths of Infants under one year of age in the Districts and Cities for each month of the year 1932. (As per Monthly Beturns)

	Viletr	oM tastal	99.10	86.54	109.98	115.15	116.22	62.67	113.01	99.75	95.36	180.13	118.82	183.60	199-93
	1	Воги Dead	*6	lable	irva	4ou	səлı	rgi ^A		aboti postore sino s					
	Әл	vilA aroa	.6	olds l	irva	ion	səar	ışiA							
	infants (ar)	Total	2,225	1,125	748	576	2,076	1,508	1,106	1,662	11,026	1,084	329	692	1,074
Keturns.)	Total (Deaths of infants under one year)	Female	1,028	524	378	595	1,003	685	539	741	5,160	508	152	334	505
- 1	Total (D	Male	1,197	601	370	314	1,073	823	567	921	5,866	576	177	358	572
Monthly	ı	Decembe	241	128	66	63	231	165	160	183	1,270	120	31	17	108
1	i.	Novembe	198	100	74	48	183	149	126	152	1,030	95	28	52	06
As per		Осторек	174	101	02	49	161	154	106	141	926	66	27	55	85
		Septembe	201	91	65	55	20₫	117	115	131	646	87	27	89	120
1952.	- ora	12u3u A	184	88	28	99	181	154	73	116	863	87	36	99	94
year		luly	500	98	43	98	166	131	76	116	988	06	38	58	86
tne y		111116 -	200	7.1	59	46	145	106	87	132	846	94	10	49	89
10	***************************************	May	170	16	19	93)	125	112	58	123	179	66	53	48	22
monen		lirgA	169	98	54	34	125	101	20	127	992	97	20	31	50
	<u> </u>	March	144	80	61	40	139	68	64	126	743	75	24	49	66
each		Eebruar _J	152	77	57	20	150	106	20	131	773	69	24	47	92
-			183	971	2.2	75	592	124	100	184	1,135	72	35	92	115
			÷	•	:	:	•	•	:	:		:	•	•	
	District		Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tunkur	Total Mysore State*	Bangalore City	Mysore City	Kolar Gold Field	C. & M. Station

* Excluding C. & M. Station, Bangalore.

TABLE 8.

Reported Deaths from Plague in the Districts and Cities in each month of the year 1932. (As per Monthly Returns.)

				>		,	1		2		`						
District		Light	Yasur	Lop	lia	A	91	\(\lambda \)	tsug	temper	орец	vember	:emper	Tot	Total (Deaths from Plague)		to redm stagger to 000,00 noitsing
		net	Eeb.	raM	rdA	sM.	unr	Jut	du V	$^{ m d}$ es	toO	roN	Dec	Male	Female	Total	1,0 1,0
Bangalore	:	401	588	170	65	16	22	86	132	187	123	89	92	992	849	1,615	146.31
Chitaldrug	:	20	15	5	5	:	9	30	114	50	126	168	227	387	424	811	121.46
Hassan	:	118	. 63	89	50	40	14	4	27	89	15	39	124	586	344	630	105.23
Kadur	:	40	1.	45	12	21	6	21	889	49	52	35	47	228	506	437	124.99
Kolsr ·	:	898	149	14	31	2	2	23	46	58	47	46	68	442	469	911	106.34
Mysore	:	186	222	127	85	75	115	194	917	279	154	153	173	1,022	1,058	2,080	136.33
Shimoga	:	16	70	4	ಣ	:	27	74	102	43	56	52	27	199	180	379	72.87
Tum kur	:	73	75	32	41	•	:	42	48	60 60	17	21	24	183	186	698	42.25
Total (Mysore State)*	:	1,122	889	586	252	159	200	486	819	762	565	602	787	3,513	3,719	7,232	111.27
Bangalore City	:	12	13	6	6			9	00	20	22	y-mil	21	20	46	116	64.58
Mysore City	:	αo		4	9	:	က	9	23	83 44	99	56	67	94	81	175	158.70
Kolar Gold Field	:		91	11	4	- Yeard	-	9	12	19		L-	20	7.1	48	119	140.40
C. & M. Station	:	50	94	10	C7		hand	:	14	9	10	10	က	:	:	101	74.18

* Excluding C. & M. Station, Bangalore.

TABLE 9.

Reported Deaths from Small-pox in the Districts and Cities, in each month of the year 1932. (As per Monthly Returns.)

	to 000,0	o redmuN 0,1 req italuqoq	89.68	37.14	17.54	41.19	69.68	105.79	4.96	7.44	45.85	69.29	51.69	15.34	20.56
		[stoT	438	248	301	144	340	1,614	56	65	2,980	125	22	13	28
	Total	Lemsje	526	118	22	81	165	840	4	37	1,538	65	31	က	:
		Male	212	130	48	63	175	774	12	28	1,442	09	56	10	:
		December	58	17	Ľ~	6	9	109	:	91	222	2	:	:	1
	I.	Novembe	87	17	41	4	24	124	5	4	210		ı :	-	
		Сеторек	47	16	8	9	41	35	က	4	217	5	H	:	:
	Ι.	Septembe	36	55	1-	တ	30	117	П	11	252	ນັ	:	П	П
		1snSnV	900	33	ž	70	98	149	-	10	898	က	4	00	63
		\Lu1.	59	22	ŭ	12	91	218	20	10	347	9	က	:	1
2		эппТ	4.9	25	9	17	27	177	9	П	306	28	-		4
		May	52	23	10	22	22	185	:	1-	321	43	0,		-
1021		firqA	49	17	2	11	28	158	62	Н	273	31	15		∞
2++/		March	20	ಬ	13	12	30	128	;	-	209	1	10	:	4
		February	12		17	23	52	105	:	:	209	:	10	• • •	:
		January	10	21	16	16	28	52	က	:	146		4	:	:
	-		:	:	:	:	:	:	:	:			:	:	:
	+	.		:	:	:		:	:	:			:	:	:
	Dietrio			:	:		•	:	:		re State)*	ity	•	Field	tion c
			Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (Myson	Bangalore C	Mysore City	Kolar Gold I	C. & M. Station

* Excluding C. & M. Station, Bangalore.

TABLE 10.

Reported deaths from Cholera in the Districts and Cities in each month of the year 1932.

	000	Numl Death 1,00 Ingoq	0.54	1.95	1.17	98.0	0.00	2.95	1.72	0.00	1.28	0.00	0.00	0.00	00.0
i	irom	Total	9	133	-	ဢ	:	45	5	:	83	:	:	:	:
	Total deaths from Cholera	Female	63	-	C3	C3	:	17	4	:	694	:	:	:	:
	Tota	: ale	4	9	20	r-4	:	28	ಸರ	:	49	:	:	:	:
	шрек	эээП.	:	:	:	:	•		:	:	:	:	:	:	:
	прек	SVOV	:	p=1	:	:	*	:	:	:			:	2 .	:
	per	Octo	1	red	:	:	:	:	:	:	01	:	:	•	:
TÔ)	smber	Septe	:	•	•	:	:	:	:	:	:		•	:	79* 0 0
Returns.	ţsī	ı3n¥	:	:	:	:	:	:	:	:	! :	:			
		July	:	:	:	:	:	ۍ	:	:	5	:	:	;	:
(As per Monthly		1 nue	2	:	*		:	-	:	:	4		:	:	:
Mo		V&M	:	:	2	 1	:	:	:	:	က	:	:	:	:
s per	[ingA	:	:	4	:	:	ଧ	:	:	9	:	:	:	:
(A	цe	Marc	gament	20	-	:	:	 1	ಣ	:	10	:	*	:	:
	Lagn.	<u>E</u> ,epı	:	:	:	•	:	C7	:	:	2	•			•
	Lieu	ıns t	က	9	:	1	:	34	9	:	50	:	•	6 6	
			:	:	:		:	:	:	•		•		:	:
			:	:	:	:	:	:	# 6)	÷		:	÷	:	:
	District		*		:	• •	•	*	:	÷	State)*	:			:
			Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (Mysore State)*	Bangalore City	Mysore City	Kolar Gold Field	C. & M. Station

* Excluding C. & M. Station, Bangalore.

9

TABLE 13.

Reported deaths from other Fevers in the Districts and Cities in each month of the year 1932.

			333.66	764.28	637.23	834.03	617.38	531.37	763.24	564.14	582.25	197.64	360.92	591-11	528.0 5
) }	Fevers	Total	3,683	5,103	3,815	2,916	5,289	8,107	3,997	4,932	37.842	355	398	501	4119
	Total deaths from	Female	1,765	2,471	1,831	1,383	2,527	3,861	1,923	2,272	18,033	187	205	201	9 1
 	Total des	Male	1,918	2,632	1,984	1,583	2,762	4,246	2,074	2,660	19,809	168	193	300	
	пірет.	Dece	323	714	989	347	405	899	540	482	4,096	14	34	50	62
	шрек	эхоИ	281	299	397	297	444	956	449	480	3,841	25	40	44	62
	190	Octo	274	443	328	181	372	629	301	374	2,982	22	17	30	99
· · ·	эшрөг	Septe	967	350	262	207	403	571	349	335	2,778	22	32	47	56
Returns.	ter	ı3n A	258	347	122	176	422	5 64	280	331	2,500	22	933	44	53
		July	326	264	177	191	458	598	294	362	2,670	28	27	37	58
(As per Monthly		ounc	323	297	358	201	444	605	212	417	2,857	42	23	83	43
Mo		May	914	333	351	284	441	630	263	421	2,987	27	28	34	43
s per	ī	irqA	934	505	274	202	479	618	227	433	3,072	34	56	47	44
(A.	qe	Marc	326	520	360	240	429	634	316	436	3,300	50	43	34	49
	nsry	E,epr	279	300	369	265	421	592	246	358	2,830	98	38	38	89
	ısıl	Janu	349	424	428	375	569	811	520	503	3,379	98	43	57	86
			:	:	:	:	:	:	:	÷		:	*		:
			•	:	:	:	:	:	:			:	•	;	
	42		·	•	•	•	•	•	•		*	•	٠	•	
	District		•	:	•	:	÷	:	:	:	State)*	:	:	*	:.
1											(Mysore	Jity	Δ	Field	Station
			Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (I	Bangalore City	Mysore City	Kolar Gold Field	C. & M. Sta

* Excluding C. &. M. Station, Bangalore.

TABLE 14.

Reported deaths from Dysentery and Diarrhæa in the Districts and Cities in each month of the year 1932. (As per Monthly Returns.).

					S			manager in it where the			William Committee Manager & M	.190		. Т.		Total Jysenter	Total (Deaths from Dysentery and Diarrhœa)	from arrhæa)	Number of deaths per
	District			January	Februar	March	firqA	May	Эшпе	luly	deugn A	Septeml	Осторет	Novemb	Деселир	Male	Female	Total	1,60,000 of popu- lation
Bangalore	:	:	:	35	51	51	98	99	51	80	58	56	57	83	102	371	345	716	64.87
Chitaldrug	:	:	:	14	98	15	œ	18	19	19	21	17	5.9	34	94	145	119	264	39.54
Hassan	:	:	:	10	9	က	2	1.1	7	-	1-	24	16	25	50	06	99	156	56.05
Kadur	:	:		21	6	7	10	50	6.	12	7	<u>a</u>	9	7	-4	82	43	125	35.75
Kolar	:	:	:	89	58	98	38	46	38	51	41	22	61	58	49	330	526	929	64.90
Mysore	:	:	:	105	73	58	85	88	78	111	130	130	126	124	123	675	553	1,228	80.49
Shimoga	:	:	•	37	130	25	34	32	91	35	25	130	24	88	75	205	179	384	73.93
Tumkur	:	÷	•	- 55	25	15	18	97	25	24	26	35	28	19	56	166	123	289	33.09
Total (Mysore	e State)*			277	241	210	233	303	245	839	312	370	347	388	433	2,064	1,654	3,718	57-21
Bangalore City] : 	250	27	32	27	43	95	58	92	5.3	31	36	51	203	225	428	238.28
Mysore City	•	:	:	59	16	16	12	18	91	32	24	23	19	23	22	113	136	249	225.80
C Kolar Gold Field	:	•	:	17	50	23	25	32	30	37	17	93	16	19	81	172	128	300	353.96
* C. & M. Station	:	:	:	14	19	12	21	25	94	45	59	25	30	20	69	:	:	334	245.30
		F	-				7												

* Excluding C. & M. Station, Bangalore.

TABLE 15.

Reported Deaths from Respiratory Diseases in the Districts and Cities in each month of the year 1932. (As per Monthly Returns.)

				211	2)	6		\								
		\ \frac{\lambda_{\pi}}{\cdot}		1					J.S.	mper	аә	прек	прет.	Total (Respire	Total (Deaths from Respiratory Diseases)		reg so
District		Tenue	F.ebru	March	IirqA	VsM	June	Lint	sugn¥	Septer	Octob	гэлоИ	Песеп	Male	Female	Total	dmuN 1489U 0,00,1 Iuqoq
						1		1	- C	1). 1	i i		i.	700	1
Bang alore	:	110	0 109	06	117	115	96	117	901	107	07.1	145	T:08	699	91)	1, 384	179.38
Chitaldrug	*	37	2 20	19	27	17	00	18	12	22	13	53	22	149	100	949	87.29
Hassan	•	15	5	6		11	2	2	ũ	6,	က	23	9	48	32	08	13.36
Kadur	•	[18	8 19	17	- 23	4	12	∞	9	21	-	17	23.3	109	99	175	50.05
Kolar	:	60	98 0	51	45	39	45	50	38	44	35	32	38	562	212	510	59.53
Mysore	:	48	8 34	43	24	70	52	20	44	41	56	36	41	282	226	508	33.30
Shimoga	:	36	933	. 21	97	12	50	! ~	15	70	7	56	23	153	78	231	44.11
Tumkur	:	 	8 29	22	53	31	28	68	27	58	17	37	52	214	187	401	45.92
Total (Mysore State)*	State)*	362	2 287	271	292	667	265	294	247	277	252	324	368	1,922	1,616	3,538	54.44
Bangalore City	:	98	68 83	202	100	86	06	101	87	68	96	119	128	549	£09	1,153	641.91
Mysore City	:		1 5	6	9		7	ಸಂ	6	-	91		9	47	42	68	80.71
Kolar Gold Field	:	44	4 30	37	93	30	9.4 4.0	30	54	25	27	13	28	213	142	355	418.85
Civil and Military Station	:	19	9 28	11	10	50	10	15	14	<u>r</u>	17	10	13	:	:	158	116.04
		-	-							-		-					

* Excluding Civil and Military Station, Bangalore.

TABLE 19.

Reported Deaths from Injuries in the Districts and Cities in each Month of the Year 1932.

(As per Monthly Keturns.)

			Marine, area	rey	ISLA	τ			paded and the col		ta	шрек	190	radio	mper	Total	Total (Deaths Injuries)	s from	oo ot to oo
	District			sna s t	Берги	Marci	lingA	May	June	Ann	nSn Y	Septe	Octob	197.0P.	Dcce1	Male []	Female	Total	Muml death 1,00,0 Luqoq
			10.49.000.000.00.0.44																
Bangalore	:	:	:	12	21	19	23	27	13	1-	10	15	22	15	25	129	85	214	19.39
Chitaldrug	:	:	:	ti l	11	4	9	∞	~H	15	13	13	11	न्तुन	<u>r</u>	22	43	100	14.98
Hassan	:	:	:	10	<u></u>	14	8	x	20	CN	က	6	10	∞	67	47	34	81	13.53
Kadur	:	:	:	Cl		1.	r-rt	<u></u> അ	13	4	2	F-	بق		CN CN	95 55	17	52	14.87
Kolar	:	:	:	21	<u>ي</u> ئڌ	21	31	22	20	24	36	13	25	ن ه	55	190	117	307	35.84
Mysore	•	•	:	16		14	10	16	15	13	17	21	12	17	18	101	62	180	11.80
Shimoga	:	•	:	ಸಂ	က	4	F-	C3	4	20	16	9	10	4	<u>∞</u>	37	37	14	14.13
Tumkur	÷	:	:	Н	16	11	10	F-	18	16	15	19	21	7	16	- 62	78	157	17.98
	Total (Mysore State)	State) *	:	99	104	94	96	96	97	98	117	103	116	06	100	675	490	1,165	17.93
Bangalore City	į	:	÷ •	-	12	. 9	9	10	<u></u>	P=4	<u></u>	4	70	1.~	6	46	22	73	40.64
Mysore City	:	:	:	:		:	:	:	:	П	Н	:	:	:	Н	:	က	က	2.72
Kolar Gold Field	:	:	:	1-	25	10	2	5	9	2	22	20	9	10	ಸ್ತ	9.1	94	115	135.69
Civil and Military Station	y Station	•	:	00	C 1	41	50	63	4	4	အ	석	CI	23	4	:	•	44	16.26
			-		-			-		-		-	-	-					

* Excluding Civil and Military Station, Bangalore.

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Total

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Total

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TABLE 20.

Reported Deaths from Suicides in the Districts and Cities of the Mysore State

12 ∞ 10 19 3 10 98 17 Male23 : Total 9 9 9 Decr. CJ \mathbb{C}^{1} : : Female က ಐ 10 $^{\circ}$ Male : 00 9 9 ရာ 133 4 4 : IstoT Novr. Female က 6 3 C4 9ls M 4 C7 22 4 3 0 10 9 4 Total October Female <u>2</u> အ 16 ಯ 03 ೧೧ 9 Male \mathbb{C}^{3} 4 C) \mathcal{C}_{2} 3 10 130 ---Total Sept. Female CI 07 10 in each Month of the Year 1932. **C7** 4 07 9 14 П Male August 10 (2) Total 4 Female : As per Monthly Returns. $^{\circ}$ 9 Male4 _ \mathbb{C}^{3} 133 \mathbb{C}^{3} 9 $\overline{}$ (2) Total July 07 10 10 Female : C) : : Male : ಯ က June 4 LetoT 70 Female ಯ Male 9 **C**7 9 П May Total 11 Female 10 7 CV Male 9 hered _ 4 ೧೧ ---9 April \mathbb{C}^{3} 16 Total Female 3 **C7** : Male 10 **C**3 ೧ C) Total March 9 Female 0 Ø 9lsM Feby. က 30 (2) 10 Total Female : 20 (2) : | Maleb 0 January ಣ 6 Total 17 $\overline{}$ 10 \leftarrow Male : Total (Mysore State).* : Bangalore City District

Chitaldrug

Hassan

Kadur

Kolar

Shimoga

Mysore

Tumkur

Bangalore

Military Station, Bangalore * Excluding Civil and

TABLE 22.

Reported Deaths from Wounds or Accidents in the Districts and Cities of the Mysore State in each Month of the Year 1932. (As per Monthly Returns).

LatoT	7111	98	54	53	35	200	150	114	821	69	Н	H	
Десепіреі.	19	2			15	21	က		65	00	:	5	
Точетьег	14	က	4	М	 	12	62	ಣ	72		:	10	
October	15	5	.∞	Н	16	∞	9	14	33	50	:	20	
September	11	œ	****	61	<u></u>	15	9	10	63	4	:		
tsu3nA	9	11	ඉත	ũ	90	10	15	13	93	တ		21	
July	ę	12	37	:	17	G		13	59			2	
Эппе	12	64	೧೦	12	14	1-	භ	16	69	2	:	9	ilable
Мау	528	9	9		16	9	H	<u></u>	99	6	:	70	Figures not available
firqA	19	೧೦	23	~	18	್	9	တ	65	9	•	9	F
Мягер	17	5	12	ಣ	18	9	63	11	73	5	:	10	
Бергиа гу	070	∞	ro	:	000 000	70	hand	10	82	12	•	25	
January	10	ຈຈ	41	;	18	ಬ	41	•	44	7	:	2	
	:	:	:	:	:	:	:	:	:	:	:	:	tion
District	Bangalore	Chitaldrug	Hassan	Kadur	Kolar	Mysore	Shimoga	Tumkur	Total (Mysore State)*.	Bangalore City	Mysore City	Kolar Gold Field	Civil and Military Station

* Excluding C. & M. Station, Bangalore.

169

10

73

2

21

15

15

17

19

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12

Total (Mysore State)*

Shimoga

Mysore

Tumkur

Bangalore City

Mysore City

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CJ

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 C_{3}

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TABLE 23.

16 38 133 20 23 31 Total Deaths from Injuries caused by Wild Beasts in the Districts and Cities of the Mysore State in each Month of the Year 1932. (As per Monthly Returns.) December C₃ November ಯ CJ October September CJ dauguA lul \mathcal{C}_{3} 70 aunc May C₃ 70 **lingA** March February January Reported District Bangalore ... Chitaldrug ... Hassan Kadur Kolar

* Excluding C. & M. Station, Bangalore.

Figures not available

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ation

Civil and Military St

Kolar Gold Field

TABLE 26.

Reported Deaths from all other Causes in the Districts and Cities of the Mysore State in each Month of the Year 1932.

(As per Monthly Returns.)

				,	1										
District		January	February	March	lingA	May	1 June	Ling	tsuguA	September	посторог —	Почешьег	December —	Total Reported Deaths A. O. C.	Percentage of total Reported Deaths
Bangalore	:	899	461	491	455	477	499	548	524	537	486	909	704	6,356	44.10
Chitaldrug	:	697	273	182	214	556	156	209	234	253	898	289	299	2,875	29.75
Hassan	•	155	121	138	66	137	137	27	51	191	136	201	196	1,589	24.59
Kadur	:	135	158	127	115	114	66	120	126	118	137	136	152	1,531	28.44
Kolar	:	583	482	483	437	400	420	454	432	464	488	459	535	5,636	41.60
Mysore	:	809	449	163	420	431	450	525	463	518	623	222	755	6,478	32.01
Shimoga	:	568	170	376	225	210	193	214	176	506	32.1	376	477	3,212	38.64
Tumkur	:	368	403	405	331	283	271	282	271	271	321	322	412	3,940	38.81
Total (Mysore State)	:	2,953	2,517	2,665	2,296	2,281	2,219	2,376	2,277	2,558	2,780	3,166	3,530	31,617	35.86
Bangalore City	:	182	162	212	180	204	170	183	213	208	216	248	276	2,454	52 17
Mysore City	*	150	126	132	127	133	112	138	119	134	164	174	145	1,654	63.03
Kolar Gold Field	*	116	90	96	78	66	84	168	104	100	97	06	130	1,192	45.93
Civil and Military Station						Figures not ava	not av	ailable	•						

TABLE 27.

16.66 12.62 8.51 18.10 10.32 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11.59 11. Total Reported Deaths Death Rate 858 626 1,319 1,050 1,050 1,023 1,187 1,1878 1,311 858 1,366 929 1,221 1,527 1,527 1,527 Total Deaths Iphabetical List of Taluks in Mysore State giving Statistics of Births and Deaths from Causes All other Complete Figures not available. Rabies Figures not available. Snake-bite beasts :14400410161161 Accidants Killed by Wild Vounds and Drowning figures not available. Snicide Causes of Deaths Child-blido Complete Figures not available. Complete Figures not available. Leprosy Consumption Complete Figures not available. Diseases Respiratory Year 1932 Diarrhæa Dysentery and Other Fevers .9'dslisva ton earngi'i **biodq** \sqrt{T} Figures | not available. Malaria Cholera different Diseases in the xoq-lism2 Plange 135.06 95.57 76.42 97.70 884.38 67.82 1187.09 157.00 87.91 36.14 100.13 50.38 120.57 91.81 116.86 64.64 83.90 57.41 Infants under Total Reported Bate Deaths of one year Mortality Infant deaths Jushini to .oV 16.16 24.92 10.31 11.47 11.47 11.25 23.31 11.25 23.31 16.99 16.99 16.16 11.91 11.91 11.91 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 Total Reported Births Birth Rate Born Dead Figures not available. 10,13 1,08**6** 1,489 1,34**6** 2,183 1,620 1,979 Born Alive 28,830 68,007 73,587 109,792 57,995 158,874 67,437 71,049 96,319 102,245 62,683 80,060 69,845 63,036 67,350 67,350 Estimated population as Channagiri, Shimoga ... 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TABLE 27—concld.

ported	Death Rate	20.90 13:40 13:40 14:88 111.77 10:77 10:96 21:47 14:00 18:39 14:43 14:99 14:99 12:15 12:15 12:15
Total Reported Deaths	ziltasu IstoT	373 1,066 995 690 645 1,022 1,112 1,112 1,266 1,266 1,306 1,547 1,547 1,311 1,547 1,134 322
	All other Causes	107 329 329 134 134 134 109 109 109 109 109 109 109 109
	Snake-bite -	Figures not available. Complete Figures not available.
	Killed by Wild beasts	wu∂ : :waaawa : 4,00 : 1414 :
	Wounds and states	:49:11:214:25:45:45:45:11:21:21:21:21:21:21:21:21:21:21:21:21:
	Drowning	Figures not available.
hs	Child-birth Suicide	Complete Figures not available.
Deaths	Leprosy	Complete Figures not available.
of I	Diseases noitquasmo	Complete Figures not available.
Causes of	Diarrhæa Respiratory	29 111 135 1123 123 123 123 123 123 123 123 123 12
Car	Dysentery and	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	Other Fevers	320 642 642 642 850 381 381 750 381 750 381 750 381 750 750 881 551 561 561 760 760 760 760 760 760 760 760 760 760
	Malaria biodqyl'	Figures not available.
	Cholera	Figures not available.
		N
	Small-pox	22 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Plague	83. 224. 224. 90. 90. 91. 91. 91. 92. 93. 93. 94. 94. 95. 96. 96. 97. 97. 97. 97. 97. 97. 97. 97
Total Reported Deaths of infants under one year	-stroM tusinI 9tsH ytil	117.99 100.38 105.46 115.92 106.33 66.90 164.62 83.79 58.51 151.21 135.14 64.81 204.81 72.19 83.14 83.14 83.14
Total De infal	lo rədınuK adtasb tualui	201 159 170 94 94 78 201 106 106 116 109 116 1196 1198 1175 119
Total Reported Births	Birth thrift	19.00 19.91 21.86 17.18 16.13 11.44 122.18 14.38 17.21 20.71 22.43 16.68 17.50 16.68 16.41 17.50 16.41 16.41 16.41
tal Repo	Born Dead	Figures not available.
Tota	ByilA mrod	339 1,584 1,612 1,584 1,156 1,221 1,221 1,221 1,221 1,221 1,245 1,221 1,245 1,745 1,745 1,773 2,10 5
sa noita	Estimated population on July 1, 1982	17,846 73,743 45,691 54,799 101,900 61,602 101,420 58,956 9,004 71,364 71,035 75,935 54,692 104,540 128,803 44,536 94,216 94,216 94,216
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	rict	r, Kadı angalol sur ysore lar Kadur ar noga ysore ir
	Dist	arajpur ala, Ba, Tumku na, Mysmoga tam, Mysmoga tam, Mysmur noga ala, Kolakur noga ahgir, Fadur i, Shimur i, Shimur, My turkur, My turkur i, Shimur, My turkur i, Shimur
	aluk, District	mharajpur, Kadurangala, Bangalore, da, Tumkur patna, Mysore Shimoga tpatam, Mysore our, Shimoga do latta, Kolar unikur Shimoga i Jahgir, Kadur Tumkur Rolar Tumkur alli, Shimoga sipur, Mysore r, Tumkur ere, do ce, Mysore ur Jahgir, Mysore ur Jahgir, Mysore ur Jahgir, Mysore
	H _a H	simha nanggada, spada,
		Narasimharajpur, Kadun Nelamangala, Bangalore Pavagada, Tumkur Periyapatna, Mysore Sagar, Shimoga Seringapatam, Mysore Shimoga, do Sidlaghatta, Kolar Sira, Tumkur Sorab, Shimoga Sringeri Jahgir, Kadur Triptur, Tumkur Tiptur, Tumkur Tirthahalli, Shimoga TNarasipur, Mysore Tumkur, Tumkur Tumkur Tumkur, Tumkur Tumkur Tumkur, Tumkur Tumku
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	No.	60 60 60 60 60 60 60 60 60 60 60 60 60 6

TABLE 28.

Alphabetical list of Municipalities in Mysore State giving statistics of Births and Deaths from different diseases, in the Year 1932.

	Total Reported Deaths	Death Rate	17.20 22.55 13.48 16.69 16.79 9.43 2.56
	Total ted J	[stoT	56 45 85 777 1111 21 21 8
-		Vinses Other	12 24 24 36 37 37 37 37 37 37 37 37 37 37 37
		Rabies	Figures not available.
		Snake-bite	: : : : : : : : : : : : : : : : : : :
	(Beasts	
	1	Accidents Killed by Wild	. % : : : : : : : : : : : : : : : : : :
	i I	bus shanoW	D
		Drowning	Figures not available.
	th	Suicide	g : : : : : : : : : : : : : : : : : : :
	ea	Ohild-blidO	.g. O.
	А	Leprosy	Do
	of	Consumption	Figures not sorgid
	Caeses of Death	Respiratory Diseases	not not 1153
	Ca	Diarrhæa	ures 33 33 10 10 10 10 10 10 11 10 11 10 11 11 11
		Dysentery and	54
		Other Fevers	H: 18 8 1
		DiodqvT	oU
		Malaria	Figures not available.
		Cholera	
		xoq-llsm2	:4::::::::::::::::::::::::::::::::::::
		Plague	:4:121 :121 :121 : : : : : : : : : : : : :
)	
	Total Reported Births	Birth Hate	23.03 23.57 23.57 17.73 18.61 84.56 4.16 83.50
	d Repo Births	TOTAL TOTAL	Figures not available.
	Bir	Born Dead	
	Tota	ByilA myo!	 75 65 150 87 77 77 77
5	382	Estimated Popuas on July 1, 19	3,450 3,255 3,255 6,307 6,611 2,228 3,127
	noitel	mand batemital	
)			Kelandur, Mysore Larikere, Kadur Hassan Anekal, Bangalore Arkalgud, Hassan Arsikere, Go Hassan, Hassan
4		ct	Kelandur, Mysore Iarikere, Kadur Hassan, Hassan Arkalgud, Hassan Arsikere, do Bagepalli (Sub) Kolar Hassan, Hassan
		tri	gal Ko
)is	ysot ddur san ddur san ddo do
		Taluk and District	Felandur, Mysore Iarikere, Kadur Hassan, Hassan Arkalgud, Hassan Arsikere, do Bagepalli (Sub) Ko Hassan, Hassan
		ano	Hall Hall Hall Hall Hall Hall Hall Hall
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		alu	san
		Ĕ	Kelandur, Farikere, Hassan, E Arkalgud, Arsikere, Bagepalli Hassan, I
			tta-
			ii y nunds and Gutta- including y Quarters rthepet I Area. et et pet tarapuram, Lal-Bagh, yam and
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		Municipality (City or Town)	amamballi npur lgud kere avar galore City High Grounds Palace and Gutta- halli Balepet including Railway Quarters Manavarthepet and Mill Area. Ulsoorpet Nagarthpet Nagarthpet Nagarthpet Sisweswarapuram, Mavalli, Lal-Bagh, Kalasipalyam and Shankarpuram.
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			gara Jian Jian Jian Jian Jian Jian Jian Jia
			Agaramamballi Ajampur Ahur Anekal Arkalgud Arsikere Bagepalli Banavar Bangalore City I. High Grour Palace and halli II. Balepet inc Railway (III. Manavarth and Mill A IV. Ulsoorpet V. Nagarthpe VI. Visweswar Kalasipalyai Shankarpur
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TABLE 28—contd.

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	Repor-	Death Rate		•	:	•	:	2.56 21.00 24.71 15.43 11.74 25.60 7.25 10.17 10.16 6.64 17.85 20.45 20.45
	Total Reported Deaths	LetoT	:	•	:	:		884 841 141 164 164 92 93 93 93 68 68
		Causes	*	:	•	:		24 28 26 57 26 56 66 66 66 67 107 100 100
		Rabies The other					1	Figures not available.
		Snake-bite	:	:	:	:	:	
		Beasts Beasts	:	:	:	: }		
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	su	Buinword	:	-:	:	:	:	Figures not available.
	Deaths	Child-birth Suicide	<u> </u>	•	•			D ₀
		Leprosy					:	Do
	s of	noitqmusnoU						Figures not available.
	Causes of	Hespiratory səssəsi	:	:	:	:	:	:40HUS : ::0
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		Cholera		<u>:</u>	•			
		xoq-IIsm2	:	:	:	:	:	: : : : : : : : : : : : : : : : : : :
		Plague	:	:	;	:	:	111
	Total Reported Births	91sA dtri{	:	:	:		:	4.16 17.99 20.13 19.81 16.05 33.88 29.25 29.25 29.25 29.25 29.25 29.25 29.25 29.25 29.25 29.25
	al Report	Born Dead				-	: 1	Figures not available.
	Total B	Born Alive	*	:	÷	:	:	13 72 66 181 82 217 217 279 103 397 101 101
10	mlation 932	Estimated Pop	:	•	:		:	3,127 4,001 3,278 9,137 5,109 6,405 3,846 9,538 3,739 13,858 3,473 11,508 12,225 6,612
		Taluk and District	:	: `	:	:	:	Hassan, Hassan T. Narsipur, Mysore Belur, Hassan Shimoga, Shimoga Kadur, Kadur Bowringpet, Kolar Chellakere, Chitaldrug Channarajnagar, Mysore Channagiri, Shimoga Channapatna, Bangalore Channarayapatna, Hassan. Chikballapur, Kolar Chikballapur, Kadur Chicknaikanhalli,
		Municipality (City or Town)	VII. Fort and Chama-	VIII. Basavangudi, Ga-	IX. Malleswaram, Seshadripuram	and Strampuram. E. D. Hospital	Total	Bannur Belakavadi Belur Bhadravathi Birur Bowringpet Challakere Chamarajnagar Channagiri Channapatna Chennarayapatna Chikballapur Chikmagalur Chikmagalur
	No.							110 110 110 110 110 110 110 110 110 110

7.423 17.79 10.04 20.51 10.08 11.52 14.26 6.08 0.423 6.05s 16.01	8·13 17·58 12·42 25·60	18.92 12.03 12.03 22.46 23.19 14.81 17.94 13.43 17.53	8:90 9:4 4 14:54 30:62	:::::
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42.93 35.97 13.64 19.05 16.12 26.32 22.55 40.82 21.90 34.61	18.30 27.89 28.36 48.80			H. H
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3. 10,732 386 6,571 89 6,155 93 93 6,155 8,853 233 6,06 188 6.154 97 97 97 97 97 97 97 97 97 97 97 97 97	drug 6,884 192 10,544 299 1,250 61	2,748 65.748 11. 8,243 11. 8,243 11. 8,243 11. 13. 11. 11. 11. 11. 11. 11. 11. 11.	Bangalore, 7,203 106 106 106 106 106 106 106 106 106 106	660 421 665
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	Taluk and District	Arkalgud, Hassan Koppa, Kadur Koratagere (Sub) Tum Krishnarajpete, Mysc Kumsi (Sub) Shimogi Kunigal, Tumkur Maddur, Mysore Malvalli, Mysore Malvalli, Mysore Malur, Kolar Mandya, Mysore Seringapatam, Mysore Yedatore, Mysore Yedatore, Mysore Mulbagal, Kolar Mulbagal, Kolar TNarasipur, Mysore Mulbagal, Kolar
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TABLE 29.

Iphabetical list of places affected with Plague in Mysore State in the Year 1932. (Attacks and Deaths given for each Month.)

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Alphabetical list of places affected with Small-pox in Mysore State in the Year 1932. (Attacks and Deaths given for each month.)

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TABLE 31.

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Alphabetical list of places affected with	(Attacks and Deat.)

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	Name of Village, Town or City		BANGALORE DISTRICT.	CHITALDRUG DISTRICT.	HASSAN DISTRICT.	Chennarayapatna Taluk— Bagur KADUR DISTRICT.	KOLAR DISTRICT.	MYSORE DISTRICT.	Malvalli Taluk— Koragala Chickmalagodu	SHIMOGA DISTRICT.	Channagiri Taluk— Hodigere Honnali Taluk— Nelahonne	TUMKUR DISTRICT.	Total (Mysore State)



MYSORE STATE DEPARTMENT OF HEALTH.

The following Bulletins are published by Government.

No. 1. Report on a Health Survey of Mysore-

By Dr. W. C. Sweet, B.Sc., M.D., Dr. P.H., Field Director, International Health Division, Rockefeller Foundation, Consultant in Health in Mysore, Bangalore, 1928.

2. Report on Tuberculosis in Mysore State—

By Dr. P. S. Chandrasekhar, M.D., some time Officer-in-charge of Tuberculosis Survey in Mysore, 1928.

No. 3. Report on a Sanitary Survey of the City of Bangalore for the Year 1927—

By Dr. B. Mahomed Usmon, L.M.s., (Retired), Senior Surgeon and Sanitary Commissioner with the Government of Mysore, Bangalore, 1928.

No. 4. Guinea-worm Disease in the State-

By Dr. J. V. Karve, M.B., Ch.B., D.P.H., Director of Health in Mysore, Bangalore, 1929.

- No. 5. Report of the Delegation of the British Social Hygiene Council, (Inc.) to the Government of Mysore, 1929.
- No. 6. Report on the Present Status of Birth, Death and Epidemic Diseases Reports in Mysore District, Bangalore City and Kolar Gold Field, with Suggestions for Improvement—

By Mr. E. R. Sundararajan, M.A., (Hons.), Technical Officer, Bureau of Vital Statistics, Mysore Department of Health, Bangalore, 1929.

No. 7. A Survey of Mysore State for Enlarged Spleens and for Hookworm and other Helminthic Infections—

By Dr. W. C. Sweet, B.Sc., M.D., Dr. P.H., Field Director, International Health Division, Rockefeller Foundation, Consultant in Health in Mysore, Bangalore, 1929.

No. 8. Physicians' Pocket Reference to the International List of Causes of Death, 1932.